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**ECOLOGICAL
ASSESSMENT
REPORT,
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ECOLOGICAL
ASSESSMENT
OF SOLDIER CREEK
TINKER AFB
OKLAHOMA CITY,
OKLAHOMA
CONTRACT NO.
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Prepared for
Department of the Air Force
Tinker AFB
Oklahoma City, Oklahoma

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APPENDIX H

TOXICITY REFERENCE VALUE

Section A

Aquatic Toxicity Reference Values

Section B

Terrestrial Toxicity Reference Values

Section A

Aquatic Toxicity Reference Values

LIST OF ACRONYMS

The following acronyms are used in Appendix H. Please note that the concentrations of the COECs for aquatic TRVs are listed in ug/l unless otherwise specified.

ASTDR:	Assessment Tools for the Evaluation of Risk
BMS:	Biomass Effect
CLR:	Chlorophyll
CYT:	Cytogenetic Effect
DVP:	Developmental Effects
EC ₅₀ :	Effective Concentration for 50% of the Test Organisms
ENZ:	Enzyme Effects
GRO:	Growth Effects
HAT:	Hatchability Effects
HSDB:	Hazardous Substances Database
IMM:	Immature (not reaching reproductive stage)/Immobilization
IRIS:	Integrated Risk Information System
LC ₅₀ :	Lethal Concentration for 50% of the Test Organisms
LD ₅₀ :	Lethal Dose to 50% of Test Organisms
LD ₁₀ :	Lethal Dose-low (A Reported Dose that is Capable of Producing Lethality)
LOEC:	Lowest-Observed-Effects-Concentration
LOAEL:	Lowest-Observed-Adverse-Effects-Level
MOR:	Mortality
NOEC:	No-Observed-Effects-Concentration
NOAEL:	No-Observed-Adverse-Effects-Level
NR:	Not Reported
OHM/TADS:	Office of Hazardous Materials/Technical Assistance Database System
PGR:	Population Growth
PSE:	Photosynthesis Effects
PTR:	Production
REP:	Reproduction Effects
RTEC:	Registry of Toxic Effects of Chemicals
TER:	Teratogenesis

aldrin

Aldrin

Invertebrates

Species	Duration	Effect	Type	Concentration (ug/l)
Paratelphusa jacquemontii	4	LC50	MOR	0.097
Paratelphusa jacquemontii	3	LC50	MOR	0.133
Chlamydotheca arcuata	1	EC50	IMM	0.2
Chlamydotheca arcuata	4	EC50	IMM	0.2
Paratelphusa jacquemontii	2	LC50	MOR	0.21
Paratelphusa jacquemontii	1	LC50	MOR	0.29
Chlamydotheca arcuata	1	EC50	IMM	0.36
Chlamydotheca arcuata	1	EC50	IMM	0.37
Chlamydotheca arcuata	3	EC50	IMM	0.37
Chlamydotheca arcuata	1	EC50	IMM	0.42
Chlamydotheca arcuata	2	EC50	IMM	0.42
Chlamydotheca arcuata	1	EC50	IMM	0.67
Chironomus riparius	1	EC50*	IMM	0.8
Chlamydotheca arcuata	1	EC50	IMM	1.15
Chlamydotheca arcuata	1	EC50	IMM	1.15
Chlamydotheca arcuata	1	EC50	IMM	1.15
Chlamydotheca arcuata	1	EC50	IMM	1.15
Pteronarcys californica	4	LC50	MOR	1.3
Pteronarcys californica	4	LC50	MOR	1.3
Macrobrachium lamarrei	3	LC50	MOR	2.3
Pteronarcys californica	25	LC50	MOR	2.5
Pteronarcys californica	30	LC50	MOR	2.5
Pteronarcys californica	20	LC50	MOR	3.2
Macrobrachium lamarrei	2	LC50	MOR	5
Asellus brevicaudus	4	LC50	MOR	8
Pteronarcys californica	2	LC50	MOR	8
Ephemerella grandis	4	LC50	MOR	9
Cypridopsis vidua	2	EC50	IMM	18
Macrobrachium lamarrei	4	LC50	MOR	21.02
Acroneuria pacifica	25	LC50	MOR	22
Acroneuria pacifica	30	LC50	MOR	22
Macrobrachium lamarrei	1	LC50	MOR	23
Simocephalus serrulatus	2	EC50	IMM	23
Simocephalus serrulatus	2	EC50	IMM	23
Daphnia pulex	2	EC50	IMM	28
Daphnia pulex	2	EC50	IMM	28
Daphnia magna	1.08	LC50*	MOR	30
Pteronarcys californica	1	LC50	MOR	30
Macrobrachium lamarrei	3	LC50	MOR	31.81
Simocephalus serrulatus	2	EC50	IMM	32
Simocephalus serrulatus	2	EC50	IMM	32
Macrobrachium lamarrei	2	LC50	MOR	47.07
Asellus brevicaudus	1	LC50	MOR	50
Palaemonetes kadiakensis	4	LC50	MOR	50
Palaemonetes kadiakensis	4	LC50	MOR	50
Acroneuria pacifica	20	LC50	MOR	56
Pteronarcys californica	15	LC50	MOR	58
Macrobrachium lamarrei	1	LC50	MOR	71.57
Daphnia magna	1.08	EC50	IMM	72
Acroneuria pacifica	10	LC50	MOR	75
Acroneuria pacifica	15	LC50	MOR	75
Asellus sp	1	LC50	MOR	80
Asellus sp	1	LC50	MOR	80
Palaemonetes kadiakensis	1.5	LC50*	MOR	85
Palaemonetes kadiakensis	1	LC50	MOR	120
Daphnia magna	1.08	EC50	IMM	140

aldrin

Acroneuria	pacifica	4	LC50	MOR	143
Acroneuria	pacifica	4	LC50*	MOR	143
Acroneuria	pacifica	3	LC50*	MOR	180
Pteronarcys	californica	4	LC50	MOR	180
Pteronarcys	californica	4	LC50*	MOR	180
Palaemonetes	kadiakensis	1.5	LC50*	MOR	185
Acroneuria	pacifica	5	LC50	MOR	200
Acroneuria	pacifica	2	LC50*	MOR	320
Pteronarcys	californica	3	LC50*	MOR	800
Physa	acuta	2	LC50	MOR	2000
Cipangopaludina	malleata	2	LC50	MOR	3200
Indoplanorbis	exustus	2	LC50	MOR	3400
Semisulcospira	libertina	2	LC50	MOR	3400
Gammarus	fasciatus	4	LC50	MOR	4300
Gammarus	fasciatus	4	LC50	MOR	4300
Gammarus	fasciatus	4	LC50	MOR	5600
Gammarus	lacustris	4	LC50	MOR	9800
Gammarus	lacustris	2	LC50	MOR	12000
Gammarus	lacustris	4	LC50	MOR	38500
Gammarus	lacustris	4	LC50*	MOR	38500
Gammarus	lacustris	1	LC50	MOR	45000
Gammarus	fasciatus	1	LC50	MOR	52000
Gammarus	fasciatus	1	LC50	MOR	56000
Paratelphusa	masoniana	4	LC50	MOR	209410
Paratelphusa	masoniana	3	LC50	MOR	213800
Paratelphusa	masoniana	2	LC50	MOR	224910
Paratelphusa	masoniana	1	LC50	MOR	237680

Fish

Species	Duration	Effect	Type	Concentration (ug/l)	
Tilapia	mossambica	2	LC50	MOR	0.9
Clarias	batrachus	4	LC50	MOR	1.2
Oncorhynchus	mykiss	4	LC50	MOR	2.2
Oncorhynchus	mykiss	4	LC50	MOR	2.6
Oncorhynchus	mykiss	4	LC50	MOR	3.2
Oncorhynchus	mykiss	4	LC50	MOR	3.3
Cyprinus	carpio	4	LC50	MOR	3.7
Clarias	batrachus	3	LC50	MOR	3.9
Cyprinus	carpio	4	LC50	MOR	4
Cyprinus	carpio	2	LC50	MOR	4.5
Lepomis	macrochirus	4	LC50	MOR	4.6
Cyprinus	carpio	1	LC50	MOR	4.8
Micropterus	salmoides	4	LC50	MOR	5
Lepomis	macrochirus	4	LC50	MOR	5.2
Lepomis	macrochirus	4	LC50	MOR	5.6
Lepomis	macrochirus	4	LC50	MOR	5.8
Lepomis	macrochirus	4	LC50	MOR	6.2
Lepomis	macrochirus	4	LC50	MOR	6.2
Clarias	batrachus	2	LC50	MOR	6.7
Lepomis	macrochirus	2	LC50	MOR	6.7
Oncorhynchus	mykiss	1	LC50	MOR	6.8
Lepomis	macrochirus	2	LC50	MOR	7.4
Oncorhynchus	tshawytscha	4	LC50*	MOR	7.5
Lepomis	macrochirus	4	LC50	MOR	7.7
Lepomis	macrochirus	4	LC50	MOR	7.7
Lepomis	macrochirus	4	LC50	MOR	7.8
Lepomis	macrochirus	4	LC50	MOR	7.8
Oncorhynchus	mykiss	1	LC50	MOR	8.1
Pimephales	promelas	4	LC50	MOR	8.2
Lepomis	macrochirus	2	LC50	MOR	8.3

aldrin

Oncorhynchus	tshawytscha	3	LC50*	MOR	8.7
Lepomis	macrochirus	1	LC50	MOR	9.3
Lepomis	macrochirus	1	LC50	MOR	9.6
Lepomis	macrochirus	4	LC50	MOR	9.7
Lepomis	macrochirus	1	LC50	MOR	10
Morone	saxatilis	3	LC50	MOR	10
Morone	saxatilis	4	LC50	MOR	10
Morone	saxatilis	4	LC50	MOR	10
Oncorhynchus	tshawytscha	2	LC50*	MOR	10.6
Clarias	batrachus	1	LC50	MOR	11
Oncorhynchus	tshawytscha	1	LC50*	MOR	12.4
Ictalurus	melas	1.5	LC50*	MOR	12.5
Lepomis	macrochirus	2	LC50	MOR	12.5
Lepomis	macrochirus	4	LC50	MOR	13
Oncorhynchus	tshawytscha	4	LC50	MOR	14.3
Lepomis	macrochirus	4	LC50*	MOR	15
Anguilla	rostrata	4	LC50	MOR	16
Lepomis	macrochirus	1	LC50	MOR	16
Lepomis	macrochirus	1	LC50	MOR	16.4
Cirrhinus	mrigala	4	LC50	MOR	16.8
Poecilia	reticulata	4	LC50	MOR	17
Oncorhynchus	mykiss	4	LC50*	MOR	17.7
Lepomis	macrochirus	1	LC50*	MOR	18
Lepomis	macrochirus	2	LC50*	MOR	18
Ictalurus	melas	4	LC50	MOR	19
Gambusia	affinis	1.5	LC50*	MOR	20
Lepomis	gibbosus	4	LC50	MOR	20
Morone	saxatilis	1	LC50	MOR	20
Morone	saxatilis	2	LC50	MOR	20
Poecilia	reticulata	4	LC50	MOR	20
Oncorhynchus	mykiss	3	LC50*	MOR	20.3
Fundulus	diaphanus	4	LC50	MOR	21
Oncorhynchus	mykiss	2	LC50*	MOR	23.9
Oncorhynchus	mykiss	1	LC50	MOR	24
Morone	saxatilis	2	LC50	MOR	25
Lepomis	macrochirus	2	LC50	MOR	26.4
Gambusia	affinis	1.5	LC50*	MOR	30
Oncorhynchus	mykiss	2	LC50	MOR	31
Oncorhynchus	mykiss	4	LC50	MOR	31
Carassius	auratus	2	LC50*	MOR	32
Carassius	auratus	4	LC50*	MOR	32
Pimephales	promelas	2	LC50*	MOR	32
Pimephales	promelas	4	LC50*	MOR	32
Pimephales	promelas	4	LC50*	MOR	33
Poecilia	reticulata	3	LC50	MOR	35
Gambusia	affinis	2	LC50	MOR	36
Lepomis	macrochirus	1	LC50	MOR	36
Oncorhynchus	mykiss	1	LC50	MOR	36
Lepomis	macrochirus	1	LC50	MOR	36.8
Poecilia	reticulata	4	LC50*	MOR	37
Tilapia	mossambica	2	LC50	MOR	37.3
Ictalurus	melas	1.5	LC50*	MOR	37.5
Fundulus	diaphanus	2	LC50	MOR	40
Gambusia	affinis	1.5	LC50*	MOR	40
Pimephales	promelas	2	LC50*	MOR	40
Pimephales	promelas	1	LC50*	MOR	41
Morone	americana	4	LC50	MOR	42
Oncorhynchus	mykiss	1	LC50*	MOR	42.4
Oncorhynchus	kisutch	4	LC50*	MOR	45.9
Pimephales	promelas	1	LC50*	MOR	47
Oncorhynchus	kisutch	3	LC50*	MOR	48.6
Fundulus	diaphanus	1	LC50	MOR	49

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Gambusia	affinis	1.5	LC50*	MOR	50
Gambusia	affinis	1.5	LC50*	MOR	50
Morone	saxatilis	1	LC50	MOR	50
Poecilia	reticulata	2	LC50*	MOR	50
Channa	punctatus	4	LC50	MOR	51
Ictalurus	punctatus	4	LC50	MOR	53
Gambusia	affinis	1.5	LC50*	MOR	55
Carassius	auratus	1	LC50*	MOR	56
Anguilla	rostrata	2	LC50	MOR	58
Oncorhynchus	kisutch	2	LC50*	MOR	61
Poecilia	reticulata	2	LC50	MOR	65
Anguilla	rostrata	1	LC50	MOR	72
Poecilia	reticulata	2	LC50	MOR	80
Channa	punctatus	3	LC50	MOR	84
Notropis	anogenus	1	LC50	MOR	86.6
Poecilia	reticulata	1	LC50*	MOR	89
Lepomis	gibbosus	2	LC50	MOR	90
Morone	americana	2	LC50	MOR	91
Cyprinus	carpio	2	LC50	MOR	100
Morone	americana	1	LC50	MOR	100
Ictalurus	melas	1.5	LC50*	MOR	110
Poecilia	reticulata	1	LC50	MOR	120
Channa	punctatus	2	LC50	MOR	128
Lepomis	macrochirus	1	LC50	MOR	130
Gambusia	affinis	2	LC50	MOR	145
Cyprinus	carpio	2	LC50	MOR	165
Heteropneustes	fossilis	4	LC50	MOR	175
Heteropneustes	fossilis	4	LC50	MOR	175
Channa	punctatus	1	LC50	MOR	185
Ictalurus	melas	1.5	LC50*	MOR	185
Heteropneustes	fossilis	3	LC50	MOR	188
Cyprinus	carpio	1	LC50	MOR	190
Lepomis	gibbosus	1	LC50	MOR	210
Heteropneustes	fossilis	2	LC50	MOR	215
Heteropneustes	fossilis	1	LC50	MOR	242
Lepomis	macrochirus	1	LC50	MOR	260
Lepomis	macrochirus	1	LC50	MOR	260
Gambusia	affinis	1	LC50	MOR	270
Poecilia	reticulata	1	LC50	MOR	289
Gambusia	affinis	2	LC50	MOR	296
Heteropneustes	fossilis	4	LC50	MOR	447
Heteropneustes	fossilis	3	LC50	MOR	479
Heteropneustes	fossilis	2	LC50	MOR	557
Oryzias	latipes	1	LC50	MOR	560
Oryzias	latipes	2	LC50	MOR	560
Oryzias	latipes	1	LC50	MOR	580
Oryzias	latipes	2	LC50	MOR	580
Poecilia	reticulata	0.5	LC50	MOR	590
Heteropneustes	fossilis	1	LC50	MOR	605
Gambusia	affinis	2	LC50	MOR	642
Heteropneustes	fossilis	4	LC50	MOR	690
Oryzias	latipes	2	LC50	MOR	700
Heteropneustes	fossilis	4	LC50	MOR	790
Heteropneustes	fossilis	4	LC50	MOR	850
Clarias	batrachus	4	LC50*	MOR	1700
Clarias	batrachus	3	LC50*	MOR	2100
Gambusia	affinis	1.5	LC50*	MOR	2100
Clarias	batrachus	2	LC50*	MOR	2300
Clarias	batrachus	1	LC50*	MOR	2700
Oryzias	latipes	1	LC50	MOR	3300
Clarias	batrachus	2	LC50	MOR	3500
Gambusia	affinis	1.5	LC50*	MOR	>100

aldrin

Notopterus	notopterus	<=4.00	LC50	MOR	0.49-0.75
Notopterus	notopterus	<=4.00	LC50	MOR	0.56-0.87
Notopterus	notopterus	<=4.00	LC50	MOR	0.56-1
Notopterus	notopterus	<=4.00	LC50	MOR	0.75-1
Notopterus	notopterus	<=4.00	LC50	MOR	0.87-1.35
Notopterus	notopterus	<=4.00	LC50	MOR	0.87-1.35
Notopterus	notopterus	<=4.00	LC50	MOR	1-1.55
Notopterus	notopterus	<=4.00	LC50	MOR	1-2.1
Notopterus	notopterus	<=4.00	LC50	MOR	1.8-2.8
Colisa	fasciata	<=4.00	LC50	MOR	24-32
Colisa	fasciata	<=4.00	LC50	MOR	24-32
Colisa	fasciata	<=4.00	LC50	MOR	24-32
Colisa	fasciata	<=4.00	LC50	MOR	28-42
Colisa	fasciata	<=4.00	LC50	MOR	42-65
Colisa	fasciata	<=4.00	LC50	MOR	42-65
Colisa	fasciata	<=4.00	LC50	MOR	49-75
Colisa	fasciata	<=4.00	LC50	MOR	56-87
Colisa	fasciata	<=4.00	LC50	MOR	65-100

Amphibians

Species		Duration	Effect	Type	Concentration (ug/l)
Bufo	woodhousei	4	LC50*	MOR	150
Bufo	woodhousei	2	LC50*	MOR	680
Bufo	woodhousei	1	LC50*	MOR	2000
Rana	hexadactyla	2	LC50	MOR	2400
Rana	hexadactyla	1	LC50	MOR	2600

methoxychlor

Methoxychlor

Invertebrates

Species	Duration	Effect	Type	Concentration (ug/l)
Stenonema sp	28	LC50	MOR	0.2
Cheumatopsyche sp	42	LC50	MOR	0.21
Gammarus pseudolimnaeus	42	LC50	MOR	0.22
Stenonema terminatum	28	LC50	MOR	0.22
Gammarus pseudolimnaeus	28	LC50	MOR	0.29
Gammarus pseudolimnaeus	14	LC50	MOR	0.3
Stenonema terminatum	14	LC50	MOR	0.41
Asellus communis	28	EC50*	IMM	0.42
Stenonema terminatum	14	LC50	MOR	0.47
Cheumatopsyche sp	28	LC50	MOR	0.49
Orconectes nais	4	LC50	MOR	0.5
Orconectes nais	4	LC50	MOR	0.5
Stenonema sp	4	EC50*	IMM	0.63
Cheumatopsyche sp	14	LC50	MOR	0.71
Asellus communis	21	EC50*	IMM	0.75
Gammarus pseudolimnaeus	4	LC50	MOR	0.75
Stenonema sp	3	EC50*	IMM	0.75
Daphnia pulex	2	EC50	IMM	0.78
Daphnia pulex	2	EC50	IMM	0.78
Gammarus lacustris	4	LC50	MOR	0.8
Gammarus lacustris	4	LC50	MOR	0.8
Taeniopteryx nivalis	3	EC50*	IMM	0.98
Taeniopteryx nivalis	4	EC50*	IMM	0.98
Asellus aquaticus	2	LC50	MOR	1
Asellus aquaticus	4	LC50	MOR	1
Palaemonetes kadiakensis	4	LC50	MOR	1
Palaemonetes kadiakensis	4	LC50	MOR	1.05
Gammarus pseudolimnaeus	4	LC50	MOR	1.14
Asellus communis	14	EC50*	IMM	1.15
Stenonema sp	4	EC50*	IMM	1.27
Gammarus lacustris	2	LC50	MOR	1.3
Hydropsyche sp	28	LC50	MOR	1.3
Stenonema sp	2	EC50*	IMM	1.34
Pteronarcys californica	4	LC50	MOR	1.4
Pteronarcys californica	4	LC50	MOR	1.4
Pteronarcys californica	4	LC50	MOR	1.4
Chironomus tentans	4	EC50*	IMM	1.49
Hydropsyche sp	21	LC50	MOR	1.5
Taeniopteryx nivalis	2	EC50*	IMM	1.52
Chironomus tentans	4	LC50	MOR	1.62
Chironomus tentans	4	EC50*	IMM	1.74
Asellus communis	7	EC50*	IMM	1.75
Gammarus fasciatus	4	LC50	MOR	1.8
Stenonema candidum	4	EC50*	IMM	1.83
Stenonema candidum	3	EC50*	IMM	1.85
Taeniopteryx nivalis	1	EC50*	IMM	1.89
Gammarus fasciatus	4	LC50	MOR	1.9
Gammarus fasciatus	4	LC50	MOR	1.9
Stenonema interpunctatum	4	LC50	MOR	1.96
Stenonema candidum	2	EC50*	IMM	1.99
Asellus aquaticus	1	LC50	MOR	2
Stenonema candidum	4	EC50*	IMM	2.1
Orconectes virilis	4	LC50	MOR	2.15
Stenonema sp	4	EC50*	IMM	2.58
Orconectes nais	1	LC50	MOR	2.6

methoxychlor

Stenonema	sp	3	EC50*	IMM	2.67
Gammarus	lacustris	1	LC50	MOR	2.9
Hydropsyche	sp	14	LC50	MOR	2.9
Stenonema	candidum	3	EC50*	IMM	2.96
Stenonema	sp	3	EC50*	IMM	3.11
Stenonema	sp	1	EC50*	IMM	3.17
Asellus	brevicaudus	4	LC50	MOR	3.2
Cheumatopsyche	sp	4	LC50	MOR	3.24
Chironomus	tentans	4	EC50*	IMM	3.59
Stenonema	candidum	1	EC50*	IMM	3.65
Stenonema	sp	2	EC50*	IMM	3.67
Daphnia	magna	1.08	LC50*	MOR	3.7
Stenonema	sp	2	EC50*	IMM	3.84
Chironomus	tentans	4	EC50*	IMM	4.29
Pteronarcella	badia	4	LC50	MOR	5
Simocephalus	serrulatus	2	EC50	IMM	5
Simocephalus	serrulatus	2	EC50	IMM	5
Chironomus	tentans	4	LC50*	MOR	5.5
Gammarus	fasciatus	1	LC50	MOR	5.6
Gammarus	fasciatus	1	LC50	MOR	5.6
Simocephalus	serrulatus	2	EC50	IMM	5.6
Stenonema	candidum	2	EC50*	IMM	5.66
Stenonema	sp	1	EC50*	IMM	5.94
Daphnia	magna	4	LC50	MOR	6
Daphnia	magna	4	LC50	MOR	6
Stenonema	sp	1	EC50*	IMM	6.02
Chironomus	tentans	4	LC50*	MOR	6.14
Orconectes	virilis	4	LC50	MOR	7.05
Pteronarcys	californica	2	LC50	MOR	8
Pteronarcys	californica	2	LC50	MOR	8
Ceriodaphnia	dubia	7	EC50*	REP	8.4
Culex	pipiens	1	LC50	MOR	8.9
Ceriodaphnia	dubia	7	EC50*	REP	9
Ceriodaphnia	dubia	4	EC50*	REP	10
Ceriodaphnia	dubia	4	EC50*	REP	11
Daphnia	magna	1.08	EC50	IMM	13.7
Ceriodaphnia	dubia	2	LC50	MOR	14.1
Daphnia	magna	2	LC50	MOR	16
Culex	pipiens	1	LC50	MOR	18.9
Hydropsyche	morosa	0.25	LC50	MOR	30
Pteronarcys	californica	1	LC50	MOR	30
Pteronarcys	californica	1	LC50	MOR	30
Aedes	cantans	1	LC50	MOR	31.5
Cypridopsis	vidua	2	EC50	IMM	32
Asellus	brevicaudus	4	LC50	MOR	34
Palaemonetes	kadiakensis	1	LC50	MOR	34
Culiseta	annulata	1	LC50	MOR	38.3
Culex	pipiens	1	LC50	MOR	40
Hydropsyche	morosa	0.25	LC50	~MOR	40
Aedes	aegypti	4	LC50	MOR	44
Aedes	aegypti	4	LC50	MOR	44
Aedes	aegypti	1	LC50	MOR	47
Aedes	aegypti	2	LC50	MOR	47
Hydropsyche	morosa	0.13	LC50	MOR	50
Aedes	punctor	1	LC50	MOR	63.1
Hexagenia	rigida	6	LC50	MOR	70
Asellus	brevicaudus	1	LC50	MOR	100
Hexagenia	rigida	10.5	LC50	MOR	120
Ceriodaphnia	dubia	4	EC50*	REP	137.5
Stenonema	candidum	1	EC50*	IMM	174.31
Daphnia	magna	1.08	EC50	IMM	195
Daphnia	magna	1	LC50	MOR	250

methoxychlor

Lumbriculus	variegatus	4	LC50	MOR	440
Lumbriculus	variegatus	2	LC50	MOR	1230
Lumbriculus	variegatus	1	LC50	MOR	1620
Lymnaea	palustris	1	LC50	MOR	8500
Hexagenia	rigida	10.5	LC50	MOR	<60
Lumbriculus	variegatus	2	LC50	~MOR	>200
Lumbriculus	variegatus	4	LC50	~MOR	>200

Fish

Species		Duration	Effect	Type	Concentration (ug/l)
Salmo	salar	4	LC50	MOR	1.7
Pimephales	promelas	4	LC50	MOR	7.5
Pimephales	promelas	4	LC50	MOR	7.5
Pimephales	promelas	4	LC50	MOR	8.54
Oncorhynchus	mykiss	4	LC50	MOR	9.36
Salvelinus	fontinalis	4	LC50	MOR	11.7
Esox	lucius	4	LC50	MOR	12
Oncorhynchus	clarki	4	LC50*	MOR	13.8
Salmo	trutta	4	LC50	MOR	14
Salmonidae		4	LC50	MOR	14
Oncorhynchus	clarki	2	LC50*	MOR	14.2
Oncorhynchus	clarki	4	LC50	MOR	15
Micropterus	salmoides	4	LC50	MOR	16
Salmo	salar	4	LC50	MOR	16.4
Salmo	trutta	2	LC50	MOR	17
Salvelinus	namaycush	4	LC50	MOR	17
Perca	flavescens	4	LC50	MOR	17.5
Cyprinus	carpio	4	LC50	MOR	19
Salvelinus	fontinalis	4	LC50	MOR	19
Stizostedion	vitreum	4	LC50	MOR	19.2
Oncorhynchus	clarki	1	LC50*	MOR	19.3
Perca	flavescens	4	LC50	MOR	20.12
Cyprinus	carpio	2	LC50	MOR	23
Cyprinus	carpio	4	LC50	MOR	24
Salmo	trutta	1	LC50	MOR	24
Notropis	hudsonius	4	LC50	MOR	24.1
Pimephales	promelas	1	LC50	MOR	25
Oncorhynchus	tshawytscha	2	LC50*	MOR	27.9
Oncorhynchus	tshawytscha	3	LC50*	MOR	27.9
Oncorhynchus	tshawytscha	4	LC50*	MOR	27.9
Oncorhynchus	tshawytscha	1	LC50*	MOR	28
Cyprinus	carpio	4	LC50	MOR	29
Catostomus	commersoni	0.083	LC50	~MOR	30
Oncorhynchus	mykiss	4	LC50	MOR	30
Perca	flavescens	4	LC50	MOR	30
Perca	flavescens	4	LC50	MOR	30
Perca	flavescens	4	LC50	MOR	30
Oncorhynchus	mykiss	4	LC50	MOR	31.2
Lepomis	macrochirus	4	LC50	MOR	32
Catostomus	commersoni	4	LC50	MOR	34.5
Pimephales	promelas	4	LC50*	MOR	35
Pimephales	promelas	2	LC50*	MOR	38
Pimephales	promelas	4	LC50	MOR	39
Catostomus	commersoni	0.083	LC50	~MOR	40
Catostomus	commersoni	0.083	LC50	~MOR	40
Lepomis	macrochirus	4	LC50	MOR	40
Lepomis	macrochirus	4	LC50	MOR	40
Pimephales	promelas	1	LC50*	MOR	40
Salvelinus	fontinalis	1	LC50	MOR	40
Carassius	auratus	4	LC50	MOR	42

methoxychlor

Lepomis	macrochirus	4	LC50	MOR	42
Oncorhynchus	mykiss	4	LC50	MOR	42
Cyprinus	carpio	2	LC50	MOR	43
Oncorhynchus	mykiss	1	LC50	MOR	45
Catostomus	commersoni	0.083	LC50	~MOR	50
Ictalurus	punctatus	4	LC50	MOR	52
Lepomis	macrochirus	4	LC50	MOR	53
Salmo	salar	1	EC50	IMM	54
Oncorhynchus	mykiss	1	LC50	MOR	55
Carassius	auratus	4	LC50*	MOR	56
Cyprinus	carpio	4	LC50	MOR	56
Cyprinus	carpio	4	LC50	MOR	56
Lepomis	macrochirus	1	LC50	MOR	58
Lepomis	macrochirus	4	LC50	MOR	62
Lepomis	macrochirus	2	LC50*	MOR	62
Lepomis	macrochirus	4	LC50*	MOR	62
Oncorhynchus	mykiss	4	LC50	MOR	62
Oncorhynchus	mykiss	4	LC50	MOR	62
Oncorhynchus	mykiss	1	LC50*	MOR	62.6
Oncorhynchus	mykiss	2	LC50*	MOR	62.6
Oncorhynchus	mykiss	3	LC50*	MOR	62.6
Oncorhynchus	mykiss	4	LC50*	MOR	62.6
Cyprinus	carpio	2	LC50	MOR	63
Pimephales	promelas	2	LC50*	MOR	64
Pimephales	promelas	4	LC50*	MOR	64
Lepomis	macrochirus	1	LC50*	MOR	66
Pimephales	promelas	1	LC50*	MOR	66
Oncorhynchus	kisutch	1	LC50*	MOR	66.2
Oncorhynchus	kisutch	2	LC50*	MOR	66.2
Oncorhynchus	kisutch	3	LC50*	MOR	66.2
Oncorhynchus	kisutch	4	LC50*	MOR	66.2
Lepomis	macrochirus	1	LC50	MOR	67
Salmo	salar	1	LC50	MOR	73
Oncorhynchus	mykiss	1	LC50	MOR	74
Lepomis	macrochirus	4	LC50	MOR	75
Lepomis	macrochirus	1	LC50	MOR	83
Carassius	auratus	2	LC50*	MOR	86
Salmo	salar	1	LC50	MOR	92
Gambusia	affinis	2	LC50	MOR	109
Cyprinus	carpio	2	LC50	MOR	112
Coregonus	clupeaformis	4	LC50	MOR	114
Carassius	auratus	1	LC50*	MOR	120
Poecilia	reticulata	4	LC50*	MOR	120
Poecilia	reticulata	2	LC50*	MOR	125
Cyprinus	carpio	1	LC50	MOR	140
Poecilia	reticulata	4	LC50	MOR	143
Tinca	tinca	2	LC50	MOR	162
Tinca	tinca	4	LC50	MOR	162
Tinca	tinca	4	LC50	MOR	162
Catostomus	commersoni	0.083	LC50	~MOR	200
Poecilia	reticulata	2	LC50	MOR	210
Cyprinus	carpio	1	LC50	MOR	225
Poecilia	reticulata	4	LC50	MOR	230
Poecilia	reticulata	2	LC50	MOR	240
Poecilia	reticulata	1	LC50*	MOR	240
Tinca	tinca	1	LC50	MOR	246
Poecilia	reticulata	2	LC50	MOR	253
Poecilia	reticulata	4	LC50	MOR	253
Catostomus	commersoni	4	LC50	MOR	260
Poecilia	reticulata	1	LC50	MOR	260
Poecilia	reticulata	1	LC50	MOR	267
Cyprinus	carpio	1	LC50	MOR	283

methoxychlor

Jordanella	floridae	4	LC50	MOR	290
Cyprinus	carpio	1	LC50	MOR	308
Poecilia	reticulata	1	LC50	MOR	312
Pseudacris	triseriata	4	LC50*	MOR	330
Catostomus	commersoni	0.083	LC50	~MOR	340
Catostomus	commersoni	0.083	LC50	~MOR	360
Pseudacris	triseriata	2	LC50*	MOR	420
Pseudacris	triseriata	1	LC50*	MOR	440
Jordanella	floridae	0.083	LC50	~MOR	560
Gambusia	affinis	1	LC50	MOR	900
Ictalurus	punctatus	11.2	LC50	MOR	1300
Jordanella	floridae	0.083	LC50	~MOR	1600
Ictalurus	punctatus	3	LC50	MOR	1800
Ictalurus	punctatus	2	LC50	MOR	1900
Gambusia	affinis	1	LC50	MOR	2000
Ictalurus	punctatus	1	LC50	MOR	2000
Jordanella	floridae	0.083	LC50	~MOR	2000
Jordanella	floridae	0.083	LC50	~MOR	2550
Jordanella	floridae	0.083	LC50	~MOR	2550
Jordanella	floridae	0.083	LC50	~MOR	3020
Jordanella	floridae	0.083	LC50	~MOR	3050
Jordanella	floridae	0.083	LC50	~MOR	3200
Jordanella	floridae	0.083	LC50	~MOR	3800
Jordanella	floridae	0.083	LC50	~MOR	4820
Jordanella	floridae	0.083	LC50	~MOR	5220
Physella	elliptica	1	LC50	MOR	5500
Jordanella	floridae	0.083	LC50	~MOR	13500
Jordanella	floridae	0.083	LC50	~MOR	29100
Jordanella	floridae	0.083	LC50	~MOR	38600
Salvelinus	fontinalis	4	LC50	MOR	>400
Salvelinus	fontinalis	4	LC50	MOR	>50000

Reptiles/Amphibians

Species		Duration	Effect	Type	Concentration (ug/l)
Bufo	woodhousei	2	LC50*	MOR	110
Bufo	woodhousei	1	LC50*	MOR	760

alpha&delta BHC

alpha-BHC

Plants

Species		Duration	Effect	Type	Concentration (ug/l)
Chlorella	pyrenoidosa	2	EC50	GRO	>10000
Chlorella	pyrenoidosa	4	EC50	GRO	>10000

Invertebrates

Species		Duration	Effect	Type	Concentration (ug/l)
Lymnaea	stagnalis	40	EC50	REP	65
Daphnia	magna	12.0-	EC50	REP	100
Daphnia	magna	25	EC50	REP	100
Lymnaea	stagnalis	40	LC50	MOR	230
Lymnaea	stagnalis	40	EC50	EGP	250
Daphnia	magna	7	EC50	MOR	370
Daphnia	magna	14	EC50	MOR	480
Daphnia	magna	2	EC50	IMM	800
Daphnia	magna	2	EC50	IMM	1000
Lymnaea	stagnalis	2	EC50	IMM	1200
Daphnia	magna	19	EC50	REP	1360
Daphnia	magna	21	LC50	MOR	2100
Daphnia	magna	21	EC50	GRO	>8500
Daphnia	magna	7	LC50	MOR	>8500
Daphnia	magna	14	LC50	MOR	>8500

Fish

Species		Duration	Effect	Type	Concentration (ug/l)
Poecilia	reticulata	2	EC50	IMM	800
Poecilia	reticulata	2	EC50	IMM	800
Oncorhynchus	mykiss	2	EC50	IMM	1050
Oryzias	latipes	37	LC50	MOR	1200
Oryzias	latipes	30	LC50	MOR	2300
Oryzias	latipes	23	LC50	MOR	2800
Oryzias	latipes	4	EC50	IMM	5600
Oryzias	latipes	2	EC50	IMM	8000
Oryzias	latipes	3	EC50	IMM	8000
Oryzias	latipes	4	LC50	MOR	8000
Oryzias	latipes	3	LC50	MOR	9500
Oryzias	latipes	1	EC50	IMM	>10000
Oryzias	latipes	1	LC50	MOR	>10000
Oryzias	latipes	2	LC50	MOR	>10000
Oryzias	latipes	9	LC50	MOR	>10000
Oryzias	latipes	9	LC50	MOR	>10000
Oryzias	latipes	16	LC50	MOR	>10000

heptachlor epoxide

Heptachlor epoxide

Invertebrates

Species		Duration	Effect	Type	Concentration (ug/l)
Daphnia	magna	1.08	LC50*	MOR	120
Daphnia	magna	2	LC50*	MOR	240
Tubifex	tubifex	2	LC50*	MOR	>10000

Fish

Species		Duration	Effect	Type	Concentration (ug/l)
Lepomis	macrochirus	4	LC50	MOR	5.3
Oncorhynchus	mykiss	4	LC50	MOR	20
Poecilia	reticulata	2	LC50*	MOR	120

heptachlor

Heptachlor

Plants

Species	Duration	Effect	Type	Concentration (ug/l)
Selenastrum capricornutum	4	EC50	GRO	28.2
Selenastrum capricornutum	4	EC50	GRO	38.1

Invertebrates

Species	Duration	Effect	Type	Concentration (ug/l)
Orconectes nais	4	LC50	MOR	0.5
Pteronarcella badia	4	LC50	MOR	0.9
Pteronarcella badia	4	LC50	MOR	0.9
Pteronarcys californica	4	LC50	MOR	1.1
Pteronarcys californica	4	LC50	MOR	1.1
Palaemonetes kadiakensis	4	LC50	MOR	1.8
Palaemonetes kadiakensis	4	LC50	MOR	1.8
Notonecta sp	7	EC50*	IMM	2.55
Claassenia sabulosa	4	LC50	MOR	2.8
Claassenia sabulosa	4	LC50	MOR	2.8
Ranatra filiformis	7	EC50*	IMM	3.79
Pteronarcella badia	2	LC50	MOR	4
Sphaeroma annulatum	7	EC50*	IMM	4.11
Pteronarcys californica	2	LC50	MOR	5.6
Pteronarcella badia	1	LC50	MOR	6
Claassenia sabulosa	2	LC50	MOR	6.4
Anisoptera	7	EC50*	IMM	6.6
Orconectes nais	4	LC50	MOR	7.8
Nepa sp	7	EC50*	IMM	7.96
Pteronarcys californica	1	LC50	MOR	8
Claassenia sabulosa	1	LC50	MOR	9
Orconectes nais	1	LC50	MOR	14
Gammarus lacustris	4	LC50	MOR	29
Gammarus lacustris	4	LC50	MOR	29
Dytiscus sp	7	EC50*	IMM	29.9
Palaemonetes kadiakensis	1	LC50	MOR	30
Hydrophilus sp	7	EC50*	IMM	35.9
Gammarus fasciatus	4	LC50	MOR	40
Palaemonetes kadiakensis	1	LC50*	MOR	40.6
Daphnia pulex	2	EC50	IMM	42
Daphnia pulex	2	EC50	IMM	42
Simocephalus serrulatus	2	EC50	IMM	47
Simocephalus serrulatus	2	EC50	IMM	47
Daphnia magna	1.08	LC50*	MOR	52
Dytiscus sp	7	EC50*	IMM	54.4
Gammarus fasciatus	4	LC50	MOR	56
Gammarus fasciatus	4	LC50	MOR	56
Cybister sp	7	EC50*	IMM	63.6
Daphnia magna	2	LC50	MOR	78
Simocephalus serrulatus	2	EC50	IMM	80
Asellus sp	1	LC50	MOR	100
Asellus sp	1	LC50	MOR	100
Gammarus lacustris	2	LC50	MOR	100
Daphnia magna	2	LC50*	MOR	110
Daphnia magna	2	LC50*	MOR	120
Daphnia magna	2	LC50*	MOR	120
Gammarus fasciatus	1	LC50	MOR	140
Gammarus lacustris	1	LC50	MOR	150
Palaemonetes kadiakensis	1	LC50*	MOR	169.4
Daphnia magna	1.08	EC50	IMM	178
Gammarus fasciatus	1	LC50	MOR	180

heptachlor

Palaemonetes	kadiakensis	1	LC50*	MOR	238.4
Palaemonetes	kadiakensis	1	LC50*	MOR	273.2
Daphnia	magna	1.08	EC50	IMM	560
Tubifex	tubifex	2	LC50*	MOR	1100
Belostoma	indicum	7	EC50*	IMM	1270
Aplexa	hypnorum	4	LC50	MOR	1450
Tubifex	tubifex	2	LC50*	MOR	1500
Tubifex	tubifex	2	LC50*	MOR	3700
Tanytarsus	dissimilis	2	LC50	MOR	>2500

Fish

Species		Duration	Effect	Type	Concentration (ug/l)
Channa	punctatus	7	LC50	MOR	0.7
Esox	lucius	4	LC50	MOR	6.2
Oncorhynchus	mykiss	4	LC50	MOR	7
Pimephales	promelas	10	LC50	MOR	7
Oncorhynchus	mykiss	4	LC50	MOR	7.3
Oncorhynchus	mykiss	4	LC50	MOR	7.4
Oncorhynchus	mykiss	4	LC50	MOR	7.7
Oncorhynchus	mykiss	4	LC50	MOR	8
Oncorhynchus	mykiss	2	LC50	MOR	9
Micropterus	salmoides	4	LC50	MOR	10
Heteropneustes	fossilis	7	LC50	MOR	11.6
Oncorhynchus	mykiss	1	LC50	MOR	12
Cyprinidae		1	LC50	MOR	13
Lepomis	macrochirus	4	LC50	MOR	13
Oncorhynchus	mykiss	1	LC50	MOR	13
Pimephales	promelas	1	LC50	MOR	13
Oncorhynchus	mykiss	1	LC50	MOR	15
Labeo	rohita	7	LC50	MOR	16.8
Lepomis	microlophus	4	LC50	MOR	17
Lepomis	microlophus	4	LC50	MOR	17
Oncorhynchus	mykiss	1	LC50	MOR	17
Oncorhynchus	tshawytscha	4	LC50*	MOR	17.3
Lepomis	macrochirus	4	LC50	MOR	18
Lepomis	macrochirus	4	LC50	MOR	19
Oncorhynchus	mykiss	4	LC50*	MOR	19.4
Colisa	fasciata	7	LC50	MOR	20.5
Lepomis	macrochirus	4	LC50	MOR	22
Lepomis	microlophus	1	LC50	MOR	22
Lepomis	microlophus	2	LC50	MOR	23
Oncorhynchus	tshawytscha	3	LC50*	MOR	23
Pimephales	promelas	4	LC50	MOR	23
Ictalurus	punctatus	4	LC50	MOR	25
Oncorhynchus	mykiss	3	LC50*	MOR	25.9
Lepomis	macrochirus	4	LC50*	MOR	26
Oncorhynchus	tshawytscha	2	LC50*	MOR	26.6
Lepomis	macrochirus	2	LC50*	MOR	32
Oncorhynchus	tshawytscha	1	LC50*	MOR	32.4
Oncorhynchus	mykiss	2	LC50*	MOR	33.8
Lepomis	microlophus	1	LC50	MOR	34
Lepomis	microlophus	1	LC50	MOR	34
Gambusia	affinis	2	LC50	MOR	35
Oncorhynchus	mykiss	1	LC50*	MOR	36.7
Lepomis	macrochirus	1	LC50*	MOR	42
Lepomis	microlophus	0.5	LC50	MOR	46
Lepomis	microlophus	1	LC50	MOR	47
Oncorhynchus	kisutch	4	LC50*	MOR	59
Oncorhynchus	kisutch	2	LC50*	MOR	60.4
Oncorhynchus	kisutch	3	LC50*	MOR	60.4
Oncorhynchus	kisutch	1	LC50*	MOR	61.9

heptachlor

Lepomis	microlophus	0.25	LC50	MOR	62
Ictalurus	melas	4	LC50	MOR	63
Lepomis	microlophus	1	LC50	MOR	64
Barbus	sophore	7	LC50	MOR	65.7
Lepomis	cyanelus	2	LC50	MOR	67
Nandus	nandus	7	LC50	MOR	67.1
Gambusia	affinis	1.5	LC50*	MOR	70
Pimephales	promelas	4	LC50*	MOR	78
Pimephales	promelas	2	LC50*	MOR	80
Pimephales	promelas	1	LC50*	MOR	84
Lepomis	microlophus	1	LC50	MOR	92
Heteropneustes	fossilis	4	LC50	MOR	92.4
Heteropneustes	fossilis	3	LC50	MOR	96.3
Heteropneustes	fossilis	2	LC50	MOR	102
Heteropneustes	fossilis	1	LC50	MOR	116
Labeo	rohita	7	LC50	MOR	127
Pimephales	promelas	2	LC50*	MOR	130
Pimephales	promelas	4	LC50*	MOR	130
Pimephales	promelas	1	LC50*	MOR	134
Esomus	danrica	7	LC50	MOR	143
Poecilia	reticulata	2	LC50*	MOR	148
Poecilia	reticulata	4	LC50*	MOR	148
Tilapia	mossambica	2	LC50	MOR	150
Channa	punctatus	4	LC50	MOR	170
Notropis	anogenus	1	LC50	MOR	219.8
Heteropneustes	fossilis	4	LC50	MOR	220
Poecilia	reticulata	1	LC50*	MOR	225
Colisa	fasciata	7	LC50	MOR	226
Anabas	testudineus	7	LC50	MOR	258
Mystus	vittatus	7	LC50	MOR	258
Heteropneustes	fossilis	3	LC50	MOR	280
Channa	punctatus	2	LC50	MOR	295
Carassius	auratus	4	LC50*	MOR	320
Heteropneustes	fossilis	2	LC50	MOR	320
Cyprinus	carpio	2	LC50	MOR	380
Carassius	auratus	2	LC50*	MOR	385
Poecilia	reticulata	2	LC50*	MOR	390
Heteropneustes	fossilis	1	LC50	MOR	400
Notemigonus	crysoleucas	2	LC50	MOR	490
Heteropneustes	fossilis	7	LC50	MOR	578
Channa	punctatus	4	LC50	MOR	640
Ictalurus	punctatus	4	LC50	MOR	700
Carassius	auratus	1	LC50*	MOR	720
Channa	punctatus	2	LC50	MOR	770
Ictalurus	punctatus	3.21	LC50	MOR	1100
Amphitnous	cuchia	7	LC50	MOR	1288
Channa	punctatus	7	LC50	MOR	1318
Clarias	batrachus	4	LC50*	MOR	1450
Ictalurus	punctatus	2.38	LC50	MOR	1600
Clarias	batrachus	3	LC50*	MOR	1700
Lepomis	cyanelus	2	LC50	MOR	1980
Clarias	batrachus	2	LC50*	MOR	2000
Notemigonus	crysoleucas	2	LC50	MOR	2340
Clarias	batrachus	1	LC50*	MOR	2700
Ictalurus	punctatus	0.33	LC50	MOR	6900
Ictalurus	punctatus	0.042	LC50	MOR	>8000
Ictalurus	punctatus	0.083	LC50	MOR	>8000
Ictalurus	punctatus	0.17	LC50	MOR	>8000

Amphibians

heptachlor

Species		Duration	Effect	Type	Concentration (ug/l)
Bufo	woodhousei	4	LC50*	MOR	440
Bufo	woodhousei	2	LC50*	MOR	760
Bufo	woodhousei	1	LC50*	MOR	850

dieldrin

Dieldrin

Plants

Species	Duration	Effect	Type	Concentration (ug/l)
Chlorella pyrenoidos	4	EC50	GRO	>100

Invertebrates

Species	Duration	Effect	Type	Concentration (ug/l)
Acroneuria pacifica	20	LC50	MOR	0.2
Acroneuria pacifica	25	LC50	MOR	0.2
Acroneuria pacifica	30	LC50	MOR	0.2
Chlamydotheca arcuata	4	EC50	IMM	0.24
Chlamydotheca arcuata	4	EC50	IMM	0.24
Acroneuria pacifica	15	LC50	MOR	0.27
Chironomus riparius	1	EC50*	IMM	0.5
Pteronarcella badia	4	LC50	MOR	0.5
Pteronarcella badia	4	LC50	MOR	0.5
Pteronarcys californica	4	LC50	MOR	0.5
Pteronarcys californica	4	LC50	MOR	0.5
Chlamydotheca arcuata	3	EC50	IMM	0.51
Chlamydotheca arcuata	3	EC50	IMM	0.51
Chlamydotheca arcuata	1	EC50	IMM	0.56
Claassenia sabulosa	4	LC50	MOR	0.58
Claassenia sabulosa	4	LC50	MOR	0.6
Chlamydotheca arcuata	1	EC50	IMM	0.89
Chironomus tentans	1	EC50	IMM	0.9
Chlamydotheca arcuata	2	EC50	IMM	0.9
Chlamydotheca arcuata	2	EC50	IMM	0.9
Notonecta undulata	4	LC50	MOR	1
Daphnia similis	2	LC50	MOR	1.07
Pteronarcys californica	2	LC50	MOR	1.3
Pteronarcella badia	2	LC50	MOR	1.5
Aedes sticticus	1	LC50	MOR	1.6
Peltodytes sp	3	LC50	MOR	2
Peltodytes sp	4	LC50	MOR	2
Pteronarcys californica	25	LC50	MOR	2
Pteronarcys californica	30	LC50	MOR	2
Aedes vexans	1	LC50	MOR	2.1
Claassenia sabulosa	2	LC50	MOR	2.3
Chlamydotheca arcuata	1	EC50	IMM	2.45
Chlamydotheca arcuata	1	EC50	IMM	2.45
Chlamydotheca arcuata	1	EC50	IMM	2.45
Chlamydotheca arcuata	1	EC50	IMM	2.45
Pteronarcys californica	20	LC50	MOR	2.6
Lestes congener	4	LC50	MOR	3
Pteronarcella badia	1	LC50	MOR	3
Culex pipiens	1	LC50	MOR	3.6
Acroneuria pacifica	10	LC50	MOR	4
Culex pipiens	1	LC50	MOR	4
Peltodytes sp	2	LC50	MOR	4
Claassenia sabulosa	1	LC50	MOR	4.5
Aedes excrucians	1	LC50	MOR	4.7
Asellus brevicaudu	4	LC50	MOR	5
Asellus brevicaudu	4	LC50	MOR	5
Pteronarcys californica	1	LC50	MOR	6
Ephemerella grandis	4	LC50	MOR	8
Pteronarcys californica	15	LC50	MOR	8.5
Eretes sticticus	2	LC50	MOR	9
Aedes cantans	1	LC50	MOR	9.1
Bosmina longirostris	4	EC50	IMM	10

dieldrin

Cypretta	kawatai	3	EC50	IMM	11.3
Ischnura	verticalis	4	LC50	MOR	12
Cypretta	kawatai	4	EC50	IMM	12.3
Culiseta	annulata	1	LC50	MOR	13.6
Eretes	sticticus	1	LC50	MOR	15
Aedes	punctor	1	LC50	MOR	16.3
Lymnaea	stagnalis	19	EC50	DVP	18
Lymnaea	stagnalis	19	EC50	HAT	18
Palaemonetes	kadiakensi	4	LC50	MOR	20
Pteronarcys	californica	10	LC50	MOR	21
Asellus	brevicaudu	1	LC50	MOR	22
Acroneuria	pacifica	4	LC50	MOR	24
Acroneuria	pacifica	3	LC50*	MOR	24
Acroneuria	pacifica	4	LC50*	MOR	24
Lestes	congener	2	LC50	MOR	30
Lymnaea	stagnalis	19	LC50	MOR	30
Pteronarcys	californica	4	LC50	MOR	39
Pteronarcys	californica	4	LC50*	MOR	39
Culex	pipiens	0.083	LC50	MOR	40
Spicodiptomus	chilospinu	2	LC50*	MOR	40
Acroneuria	pacifica	2	LC50*	MOR	42
Palaemonetes	kadiakensi	1.5	LC50*	MOR	50
Spicodiptomus	chilospinu	1	LC50*	MOR	50
Pteronarcys	californica	3	LC50*	MOR	56
Daphnia	similis	2	LC50	MOR	60
Daphnia	magna	21	EC50	REP	80
Palaemonetes	kadiakensi	1	LC50	MOR	87
Daphnia	magna	21	LC50	MOR	100
Diacyclops	thomasi	4	EC50	IMM	100
Aedes	aegypti	0.042	LC50	~MOR	104
Lymnaea	stagnalis	14	LC50	MOR	120
Daphnia	carinata	2	EC50	IMM	130
Palaemonetes	kadiakensi	1.5	LC50*	MOR	135
Daphnia	magna	1.08	EC50	IMM	145
Daphnia	carinata	1	EC50	IMM	160
Cypretta	kawatai	2	EC50	IMM	185
Daphnia	pulex	2	EC50	IMM	190
Simocephalus	serrulatus	2	EC50	IMM	190
Daphnia	magna	7	LC50	MOR	200
Simocephalus	serrulatus	2	EC50	IMM	240
Simocephalus	serrulatus	2	EC50	IMM	240
Daphnia	pulex	2	EC50	IMM	250
Daphnia	pulex	2	EC50	IMM	251
Culex	pipiens	1	LC50	MOR	400
Gammarus	lacustris	4	LC50	MOR	460
Gammarus	fasciatus	4	LC50	MOR	600
Gammarus	fasciatus	4	LC50	MOR	640
Gammarus	fasciatus	4	LC50	MOR	640
Gammarus	lacustris	4	LC50	MOR	700
Gammarus	lacustris	4	LC50*	MOR	700
Daphnia	magna	1.08	LC50*	MOR	740
Orconectes	nais	4	LC50	MOR	740
Orconectes	nais	4	LC50	MOR	740
Gammarus	lacustris	2	LC50	MOR	1000
Gammarus	lacustris	1	LC50	MOR	1400
Gammarus	fasciatus	1	LC50	MOR	1600
Gammarus	fasciatus	1	LC50	MOR	1800
Daphnia	magna	1.08	EC50	IMM	4000
Tubificidae		4	LC50*	MOR	6710
Orconectes	nais	1	LC50	MOR	10000
Tubificidae		2	LC50*	MOR	13100
Tubificidae		1	LC50*	MOR	31900

dieldrin

Hirudo	nipponia	2	EC50*	IMM	60000
Hirudo	nipponia	2	EC50*	IMM	60000
Hirudo	nipponia	1	EC50*	IMM	76000
Hirudo	nipponia	1	EC50*	IMM	84000
Chironomus	tentans	1	EC50	IMM	>560
Chironomus	tentans	2	EC50	IMM	>560
Chironomus	tentans	3	EC50	IMM	>560
Chironomus	tentans	4	EC50	IMM	>560
Cypretta	kawatai	1	EC50	IMM	>560
Daphnia	magna	1	LC50	MOR	>200
Daphnia	magna	1	LC50	MOR	>200
Daphnia	magna	1	LC50	MOR	>200
Daphnia	magna	1	LC50	MOR	>200
Daphnia	magna	2	LC50	MOR	>200
Daphnia	magna	2	LC50	MOR	>200
Daphnia	magna	2	LC50	MOR	>200
Daphnia	magna	2	LC50	MOR	>200
Daphnia	magna	2	LC50	MOR	>200
Daphnia	magna	14	LC50	MOR	>200
Daphnia	pulex	0.13	LC50*	MOR	>10000
Dreissena	polymorph	21	LC50	MOR	>200
Lymnaea	stagnalis	7	LC50	MOR	>200
Moina	macrocopa	0.13	LC50*	MOR	>10000

FISH

Species	Duration	Effect	Type	Concentration (ug/l)
Oncorhynchus mykiss	12	LC50	MOR	0.26
Oncorhynchus mykiss	4	LC50	MOR	0.62
Clarias batrachus	4	LC50	MOR	1
Morone saxatilis	3	LC50	MOR	1
Morone saxatilis	4	LC50	MOR	1
Poecilia reticulata	4	LC50*	MOR	1
Oncorhynchus mykiss	4	LC50	MOR	1.1
Oncorhynchus mykiss	4	LC50	MOR	1.2
Oncorhynchus mykiss	4	LC50	MOR	1.4
Clarias batrachus	3	LC50	MOR	1.7
Carassius auratus	4	LC50	MOR	1.8
Oncorhynchus mykiss	4	LC50	MOR	2.4
Ictalurus melas	1.5	LC50*	MOR	2.5
Poecilia reticulata	14	LC50	MOR	2.5
Poecilia reticulata	60	LC50	MOR	2.5
Lepomis macrochir	4	LC50	MOR	2.8
Poecilia reticulata	7	LC50	MOR	2.8
Oncorhynchus mykiss	4	LC50	MOR	3
Lepomis macrochir	4	LC50	MOR	3.1
Oncorhynchus mykiss	1	LC50	MOR	3.1
Oncorhynchus mykiss	1	LC50	MOR	3.1
Clarias batrachus	2	LC50	MOR	3.2
Poecilia reticulata	4	LC50	MOR	3.2
Lepomis macrochir	2	LC50	MOR	3.4
Micropterus salmoides	4	LC50	MOR	3.5
Poecilia reticulata	4	LC50*	MOR	3.5
Pimephales promelas	4	LC50	MOR	3.8
Ictalurus punctatus	4	LC50	MOR	4.5
Poecilia reticulata	2	LC50	MOR	4.5
Poecilia reticulata	4	LC50	MOR	4.6
Poecilia reticulata	4	LC50	MOR	4.89
Poecilia reticulata	7	LC50	MOR	5
Lepomis macrochir	1	LC50	MOR	5.5
Poecilia reticulata	4	LC50	MOR	5.5
Oncorhynchus clarki	4	LC50	MOR	6
Clarias batrachus	1	LC50	MOR	6.1

dieldrin

Oncorhynchus	tshawytsc	3	LC50*	MOR	6.1
Oncorhynchus	tshawytsc	4	LC50*	MOR	6.1
Oncorhynchus	clarki	4	LC50*	MOR	6.4
Oncorhynchus	mykiss	4	LC50	MOR	6.4
Poecilia	reticulata	4	LC50	MOR	6.6
Oncorhynchus	tshawytsc	2	LC50*	MOR	6.7
Poecilia	reticulata	4	LC50	MOR	7
Lepomis	macrochir	4	LC50	MOR	7.1
Morone	saxatilis	2	LC50	MOR	7.5
Lepomis	macrochir	4	LC50	MOR	7.9
Oncorhynchus	tshawytsc	1	LC50*	MOR	7.9
Gambusia	affinis	2	LC50	MOR	8
Lepomis	macrochir	2	LC50	MOR	8.4
Tilapia	mossambi	4	LC50	MOR	8.4
Oncorhynchus	clarki	2	LC50*	MOR	8.5
Lepomis	macrochir	4	LC50	MOR	8.8
Lepomis	macrochir	4	LC50*	MOR	8.8
Poecilia	reticulata	7	LC50	MOR	9
Lepomis	macrochir	4	LC50	MOR	9.1
Lepomis	macrochir	4	LC50	MOR	9.3
Lepomis	macrochir	2	LC50*	MOR	9.3
Oncorhynchus	mykiss	4	LC50	MOR	9.59
Oncorhynchus	mykiss	3	LC50*	MOR	9.9
Oncorhynchus	mykiss	4	LC50*	MOR	9.9
Lepomis	macrochir	1	LC50	MOR	10
Lepomis	macrochir	4	LC50	MOR	10
Morone	saxatilis	1	LC50	MOR	10
Tilapia	mossambi	4	LC50	MOR	10
Oncorhynchus	kisutch	4	LC50*	MOR	10.8
Poecilia	reticulata	4	LC50	MOR	10.9
Lepomis	macrochir	2	LC50	MOR	11
Lepomis	macrochir	4	LC50	MOR	11
Oncorhynchus	clarki	4	LC50	MOR	12
Poecilia	reticulata	2	LC50	MOR	12
Gambusia	affinis	1.5	LC50*	MOR	12.5
Ictalurus	melas	1.5	LC50*	MOR	12.5
Oncorhynchus	clarki	1	LC50*	MOR	12.7
Oncorhynchus	mykiss	1	LC50	MOR	13
Oncorhynchus	mykiss	4	LC50	MOR	13
Oncorhynchus	mykiss	2	LC50*	MOR	13
Lepomis	macrochir	1	LC50	MOR	14
Lepomis	macrochir	4	LC50	MOR	14
Lepomis	macrochir	1	LC50*	MOR	14
Oncorhynchus	kisutch	3	LC50*	MOR	14.4
Lepomis	macrochir	4	LC50	MOR	14.5
Lepomis	macrochir	1	LC50	MOR	15
Oncorhynchus	mykiss	2	LC50	MOR	15
Tilapia	mossambi	2	LC50	MOR	15
Oncorhynchus	kisutch	2	LC50*	MOR	15.3
Oncorhynchus	mykiss	1	LC50*	MOR	15.7
Gambusia	affinis	1.5	LC50*	MOR	16
Gambusia	affinis	1.5	LC50*	MOR	16
Gambusia	affinis	1.5	LC50*	MOR	16
Lepomis	macrochir	4	LC50	MOR	16
Salmo	trutta	1	LC50	MOR	16
Channa	punctatus	4	LC50	MOR	16.8
Lepomis	macrochir	4	LC50	MOR	17
Oncorhynchus	kisutch	1	LC50*	MOR	17.5
Lepomis	macrochir	2	LC50	MOR	18
Lepomis	macrochir	4	LC50	MOR	18
Pimephales	promelas	1	LC50*	MOR	18
Pimephales	promelas	2	LC50*	MOR	18

dieldrin

Pimephales	promelas	2	LC50*	MOR	18
Pimephales	promelas	4	LC50*	MOR	18
Pimephales	promelas	4	LC50*	MOR	18
Ictalurus	punctatus	4	LC50	MOR	19
Oncorhynchus	mykiss	1	LC50	MOR	19
Poecilia	reticulata	2	LC50	MOR	20
Tilapia	mossambi	1	LC50	MOR	20
Tilapia	mossambi	2	LC50	MOR	20
Channa	punctatus	3	LC50	MOR	20.4
Poecilia	reticulata	4	LC50*	MOR	21
Cyprinidae		1	LC50	MOR	24
Lepomis	macrochir	1	LC50	MOR	24
Lepomis	macrochir	1	LC50	MOR	24
Pimephales	promelas	1	LC50	MOR	24
Gambusia	affinis	1.5	LC50*	MOR	25
Poecilia	reticulata	4	LC50*	MOR	25
Lepomis	macrochir	2	LC50	MOR	26
Ictalurus	melas	1.5	LC50*	MOR	27.5
Channa	punctatus	2	LC50	MOR	29
Poecilia	reticulata	1	LC50	MOR	30
Poecilia	reticulata	7	LC50	MOR	30
Gambusia	affinis	4	LC50	MOR	31
Poecilia	reticulata	2	LC50*	MOR	32
Tilapia	mossambi	1	LC50	MOR	33
Lepomis	macrochir	2	LC50	MOR	34
Poecilia	reticulata	2	LC50	MOR	35
Poecilia	reticulata	4	LC50	MOR	36.7
Lepomis	macrochir	1	LC50	MOR	39
Lepomis	macrochir	1	LC50	MOR	40
Pimephales	promelas	1	LC50*	MOR	40
Poecilia	reticulata	1	LC50	MOR	40
Channa	punctatus	1	LC50	MOR	40.2
Carassius	auratus	2	LC50*	MOR	41
Carassius	auratus	4	LC50*	MOR	41
Carassius	auratus	1	LC50*	MOR	48
Gambusia	affinis	2	LC50	MOR	54
Lepomis	macrochir	1	LC50	MOR	54
Ictalurus	melas	1.5	LC50*	MOR	55
Poecilia	reticulata	1	LC50*	MOR	62
Cyprinus	carpio	2	LC50	MOR	67
Poecilia	reticulata	2	LC50	MOR	73
Gambusia	affinis	1	LC50	MOR	85
Oryzias	latipes	1	LC50	MOR	100
Oryzias	latipes	2	LC50	MOR	100
Lepomis	macrochir	1	LC50	MOR	170
Lepomis	macrochir	1	LC50	MOR	170
Oryzias	latipes	1	LC50	MOR	170
Oryzias	latipes	2	LC50	MOR	170
Oryzias	latipes	2	LC50	MOR	300
Poecilia	reticulata	4	LC50	MOR	300
Poecilia	reticulata	2	LC50	MOR	340
Gambusia	affinis	1.5	LC50*	MOR	500
Morone	saxatilis	1	LC50	MOR	500
Morone	saxatilis	2	LC50	MOR	500
Morone	saxatilis	3	LC50	MOR	500
Morone	saxatilis	4	LC50	MOR	500
Cyprinus	carpio	4	LC50	MOR	600
Oryzias	latipes	1	LC50	MOR	620
Cyprinus	carpio	2	LC50	MOR	700
Cyprinus	carpio	1	LC50	MOR	780
Ictalurus	punctatus	0.33	LC50	MOR	2500
Oncorhynchus	mykiss	4	LC50	MOR	10000

dieldrin

Oncorhynchus mykiss	4	LC50	MOR	10000
Oncorhynchus mykiss	4	LC50	MOR	10000
Oncorhynchus mykiss	4	LC50	MOR	10000
Oncorhynchus mykiss	4	LC50	MOR	10000
Ictalurus punctatus	0.17	LC50	MOR	39600
Gambusia affinis	1.5	LC50*	MOR	<10
Ictalurus punctatus	1	LC50	MOR	<2500
Ictalurus punctatus	2	LC50	MOR	<2500
Ictalurus punctatus	3	LC50	MOR	<2500
Ictalurus punctatus	4	LC50	MOR	<2500
Gambusia affinis	1.5	LC50*	MOR	>100
Ictalurus punctatus	0.042	LC50	MOR	>100000
Ictalurus punctatus	0.083	LC50	MOR	>100000

AMPHIBIANS

Species		Duration	Effect	Type	Concentration (ug/l)
Pseudacris triseriata	4	LC50*	MOR	100	
Bufo woodhous	4	LC50*	MOR	150	
Pseudacris triseriata	2	LC50*	MOR	220	
Pseudacris triseriata	1	LC50*	MOR	230	
Bufo woodhous	2	LC50*	MOR	400	
Bufo woodhous	1	LC50*	MOR	1400	

endosulfan

alpha-Endosulfan

Fish

Species	Duration	Effect	Type	Concentration (ug/l)
Channa punctatus	4	LC50	MOR	0.16
Labeo rohita	4	LC50	MOR	0.33
Labeo rohita	4	LC50	MOR	1
Cirrhinus mrigala	4	EC50*	IMM	1.3

beta-Endosulfan

Fish

Species	Duration	Effect	Type	Concentration (ug/l)
Channa punctatus	4	LC50	MOR	6.6
Labeo rohita	4	LC50	MOR	7.1
Cirrhinus mrigala	4	EC50*	IMM	8.8

chlordanes

alpha Chlordane

Fish

Species	Duration	Effect	Type	Concentration (ug/l)
Lepomis macrochirus	4	LC50	MOR	7.1

trans-Chlordane

Fish

Species	Duration	Effect	Type	Concentration (ug/l)
Lepomis macrochirus	4	LC50	MOR	50.5

Chlordane

INVERTEBRATES

Species	Duration	Effect	Type	Concentration (ug/l)
Palaemonetes kadiakensis	5	LC50	MOR	2.5
Palaemonetes kadiakensis	4	LC50	MOR	4
Palaemonetes kadiakensis	5	LC50	MOR	8
Palaemonetes kadiakensis	2	LC50	MOR	10
Palaemonetes kadiakensis	4	LC50	MOR	10
Catla catla	4	LC50	MOR	12
Palaemonetes kadiakensis	1	LC50*	MOR	13.6
Pteronarcys californica	4	LC50	MOR	15
Pteronarcys californica	4	LC50	MOR	15
Simocephalus serrulatus	2	EC50	IMM	20
Simocephalus serrulatus	2	EC50	IMM	20
Daphnia pulex	2	EC50	IMM	24
Simocephalus serrulatus	2	EC50	IMM	24
Gammarus lacustris	4	LC50	MOR	26
Daphnia magna	4	LC50	MOR	28.4
Daphnia pulex	2	EC50	IMM	29
Daphnia magna	2.92	LC50	MOR	31.1
Orconectes nais	35	LC50	MOR	31.6
Palaemonetes kadiakensis	2	LC50	MOR	32
Daphnia magna	2	LC50	MOR	35
Daphnia magna	4	LC50	MOR	35.2
Daphnia magna	3.08	LC50	MOR	37.5
Gammarus fasciatus	4	LC50	MOR	40
Gammarus fasciatus	4	LC50	MOR	40
Daphnia magna	2.75	LC50	MOR	42.2
Orconectes nais	4	LC50	MOR	50
Pteronarcys californica	2	LC50	MOR	55
Palaemonetes kadiakensis	1	LC50*	MOR	77.9
Gammarus lacustris	2	LC50	MOR	80
Palaemonetes kadiakensis	1	LC50	MOR	90
Daphnia magna	2	EC50	IMM	97
Hyalella azteca	7	LC50	MOR	97.1
Gammarus fasciatus	1	LC50	MOR	100
Palaemonetes kadiakensis	1	LC50	MOR	120
Daphnia magna	2	EC50	IMM	156
Gammarus lacustris	1	LC50	MOR	160
Pteronarcys californica	1	LC50	MOR	170
Palaemonetes kadiakensis	1	LC50*	MOR	190.7
Daphnia magna	2	LC50	MOR	270
Palaemonetes kadiakensis	1	LC50*	MOR	334
Hirudo nipponia	2	EC50*	IMM	1000
Aplexa hypnorum	4	LC50	MOR	1250
Lumbriculus variegatus	9	LC50	MOR	1400

chlordanes

Tanytarsus	dissimilis	2	LC50	MOR	1440
Lumbriculus	variegatus	7	LC50	MOR	1800
Hirudo	nipponia	2	EC50*	IMM	2000
Hirudo	nipponia	1	EC50*	IMM	2100
Hirudo	nipponia	1	EC50*	IMM	2300

Fish

Species		Duration	Effect	Type	Concentration (ug/l)
Cyprinus	carpio	4	LC50	MOR	2.9
Micropterus	salmoides	4	LC50	MOR	3
Cyprinus	carpio	2	LC50	MOR	3.65
Cyprinus	carpio	1	LC50	MOR	4.6
Ictalurus	punctatus	4	LC50	MOR	6.7
Oncorhynchus	mykiss	4	LC50	MOR	7.8
Oncorhynchus	mykiss	4	LC50	MOR	8.2
Oncorhynchus	mykiss	4	LC50	MOR	9.1
Oncorhynchus	mykiss	2	LC50	MOR	10
Salmo	trutta	4	LC50	MOR	11.1
Cirrhinus	mrigala	4	LC50	MOR	14
Oncorhynchus	kisutch	4	LC50	MOR	14
Cirrhinus	mrigala	4	LC50	MOR	15
Cyprinus	carpio	4	LC50	MOR	16
Cyprinus	carpio	4	LC50	MOR	16
Lepomis	macrochirus	4	LC50	MOR	19.1
Labeo	rohita	4	LC50	MOR	20
Oncorhynchus	mykiss	4	LC50	MOR	20
Oncorhynchus	mykiss	4	LC50	MOR	20
Lepomis	macrochirus	4	LC50	MOR	22
Oncorhynchus	mykiss	1	LC50	MOR	22
Lepomis	macrochirus	4	LC50	MOR	23.4
Pimephales	promelas	4	LC50	MOR	24.8
Oncorhynchus	mykiss	4	LC50	MOR	24.9
Oncorhynchus	mykiss	4	LC50	MOR	24.9
Salvelinus	fontinalis	6.92	LC50	MOR	25
Oncorhynchus	clarki	4	LC50	MOR	27
Oncorhynchus	mykiss	4	LC50	MOR	29
Lepomis	macrochirus	4	LC50	MOR	29.3
Oncorhynchus	mykiss	4	LC50	MOR	31
Salvelinus	fontinalis	5.92	LC50	MOR	31
Pimephales	promelas	8	LC50	MOR	32.1
Pimephales	promelas	7	LC50	MOR	33.9
Pimephales	promelas	5	LC50	MOR	35.9
Pimephales	promelas	4	LC50	MOR	36.9
Lepomis	macrochirus	4	LC50	MOR	38
Salvelinus	fontinalis	4.92	LC50	MOR	39
Lepomis	macrochirus	6	LC50	MOR	40
Lepomis	macrochirus	4	LC50	MOR	41
Pimephales	promelas	3	LC50	MOR	41.7
Oncorhynchus	mykiss	4	LC50	MOR	42
Lepomis	macrochirus	4	LC50	MOR	45
Ictalurus	punctatus	4	LC50	MOR	45.8
Lepomis	macrochirus	5	LC50	MOR	46
Oncorhynchus	mykiss	4	LC50	MOR	47
Salvelinus	fontinalis	4	LC50	MOR	47
Pimephales	promelas	1.88	LC50	MOR	53.4
Lepomis	macrochirus	4	LC50	MOR	57
Lepomis	macrochirus	4	LC50	MOR	59
Lepomis	macrochirus	4	LC50	MOR	62
Lepomis	macrochirus	3	LC50	MOR	77
Lepomis	macrochirus	4	LC50	MOR	77

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Lepomis	macrochirus	4	LC50	MOR	77
Lepomis	macrochirus	4	LC50	MOR	83
Lepomis	macrochirus	4	LC50	MOR	85
Lepomis	cyanelus	2	LC50	MOR	86
Lepomis	macrochirus	4	LC50	MOR	93
Lepomis	macrochirus	1	LC50	MOR	95
Salvelinus	fontinalis	1.92	LC50	MOR	102
Pimephales	promelas	4	LC50	MOR	115
Salvelinus	fontinalis	1.2	LC50	MOR	117
Lepomis	macrochirus	2	LC50	MOR	121
Salvelinus	fontinalis	1.13	LC50	MOR	125
Lepomis	macrochirus	1	LC50	MOR	170
Labeo	rohita	4	LC50	MOR	180
Labeo	rohita	3	LC50	MOR	190
Labeo	rohita	2	LC50	MOR	200
Labeo	rohita	1	LC50	MOR	210
Lepomis	macrochirus	1	LC50	MOR	220
Notemigonus	crysoleucas	2	LC50	MOR	405
Notemigonus	crysoleucas	2	LC50	MOR	2325
Lepomis	cyanelus	2	LC50	MOR	3275
Notopterus	notopterus	4	LC50	MOR	9731

PCP-Fish

Pentachlorophenyl

Species	Duration (days)	Effect	Type	[Conc] (ug/L)
FISH				
Brachydanio rerio	4	LC50*	MOR	15
Oncorhynchus mykiss	4	LC50	MOR	18
Coregonus muksun	2	LC50	MOR	22
Carassius auratus	4	LC50	MOR	23
Lepomis macrochirus	4	LC50	MOR	24
Lepomis macrochirus	3	LC50	MOR	25
Lepomis macrochirus	3	LC50	MOR	25
Lepomis macrochirus	3	LC50	MOR	26
Lepomis macrochirus	3	LC50	MOR	27
Lepomis macrochirus	2	LC50	MOR	29
Lepomis macrochirus	3	LC50	MOR	29
Lepomis macrochirus	3	LC50	MOR	30
Lepomis macrochirus	4	LC50	MOR	32
Oncorhynchus mykiss	4	LC50	MOR	32
Lepomis macrochirus	2	LC50	MOR	33
Lepomis macrochirus	1	LC50	MOR	38
Rutilus rutilus	4	LC50	MOR	38
Lepomis macrochirus	1	LC50	MOR	39
Lepomis macrochirus	2	LC50	MOR	39
Poecilia reticulata	1	LC50	MOR	40
Coregonus muksun	4	LC50	MOR	43
Esox lucius	4	LC50	MOR	45
Lepomis macrochirus	1	LC50	MOR	45
Lepomis macrochirus	1	LC50	MOR	46
Carassius auratus	4	LC50	MOR	49
Lepomis macrochirus	0.25	LC50	MOR	52
Oncorhynchus mykiss	4	LC50	MOR	52
Lepomis macrochirus	1	LC50	MOR	53
Ictalurus punctatus	3	LC50	MOR	54
Ictalurus punctatus	4	LC50	MOR	54
Ictalurus punctatus	4	LC50	MOR	54
Lepomis macrochirus	1	LC50	MOR	54
Micropterus salmoides	120	LC50	MOR	54
Salmo trutta	4	LC50	MOR	54
Carassius auratus	4	LC50	MOR	55
Carassius auratus	4	LC50	MOR	56
Carassius auratus	3	LC50	MOR	57
Lepomis macrochirus	0.25	LC50	MOR	57
Ictalurus punctatus	3	LC50	MOR	58
Ictalurus punctatus	3	LC50	MOR	59
Ictalurus punctatus	2	LC50	MOR	60
Lepomis macrochirus	4	LC50	MOR	60
Lepomis macrochirus	2	LC50	MOR	63
Ictalurus punctatus	2	LC50	MOR	64
Coregonus muksun	2	LC50	MOR	65
Oncorhynchus mykiss	4	LC50	MOR	66
Ictalurus punctatus	2	LC50	MOR	67
Ictalurus punctatus	4	LC50	MOR	68
Oncorhynchus tshawytscha	4	LC50	MOR	68
Carassius auratus	3	LC50	MOR	72
Ictalurus punctatus	1	LC50	MOR	74
Oncorhynchus mykiss	2	LC50	MOR	75
Oncorhynchus mykiss	4	LC50	MOR	75
Ictalurus punctatus	1	LC50	MOR	76
Lepomis macrochirus	4	LC50	MOR	77
Carassius auratus	2	LC50	MOR	81
Carassius auratus	1	LC50	MOR	82

PCP-Fish

Lepomis	macrochirus	0.25	LC50	MOR	83
Notopterus	notopterus	4	LC50	MOR	83
Carassius	auratus	3	LC50	MOR	84
Catostomus	commersoni	4	LC50	MOR	85
Ictalurus	punctatus	1	LC50	MOR	85
Carassius	carassius	2	LC50	MOR	87
Notopterus	notopterus	3	LC50	MOR	90
Oncorhynchus	mykiss	4	LC50	MOR	92
Oncorhynchus	mykiss	2	LC50	MOR	93
Pimephales	promelas	4	LC50	MOR	95
Pimephales	promelas	4	LC50	MOR	98.6
Oncorhynchus	mykiss	1	LC50	MOR	100
Carassius	auratus	2	LC50	MOR	108
Notopterus	notopterus	2	LC50	MOR	109
Carassius	auratus	2	LC50	MOR	112
Notopterus	notopterus	1	LC50	MOR	113
Lepomis	macrochirus	3	LC50	MOR	115
Lepomis	macrochirus	4	LC50	MOR	115
Oncorhynchus	mykiss	4	LC50	MOR	115
Lepomis	macrochirus	2	LC50	MOR	116
Carassius	auratus	3	LC50	MOR	117
Carassius	auratus	4	LC50	MOR	117
Carassius	auratus	1	LC50	MOR	120
Ictalurus	punctatus	1	LC50*	MOR	120
Pimephales	promelas	4	LC50	MOR	120
Pimephales	promelas	4	LC50	MOR	120
Lepomis	macrochirus	2	LC50	MOR	121
Lepomis	macrochirus	1	LC50	MOR	130
Ictalurus	punctatus	4	LC50	MOR	132
Lepomis	macrochirus	1	LC50	MOR	136
Micropterus	salmoides	4	LC50	MOR	136
Ictalurus	punctatus	1	LC50*	MOR	140
Rasbora	daniconia	4	LC50	MOR	148.3
Lepomis	macrochirus	4	LC50	MOR	150
Lepomis	macrochirus	2	LC50	MOR	152
Lepomis	macrochirus	3	LC50	MOR	152
Lepomis	macrochirus	4	LC50	MOR	152
Carassius	auratus	4	LC50	MOR	156
Lepomis	macrochirus	3	LC50	MOR	156
Oncorhynchus	mykiss	4	LC50	MOR	160
Pimephales	promelas	4	LC50	MOR	160
Carassius	auratus	2	LC50	MOR	169
Pimephales	promelas	4	LC50	MOR	170
Carassius	auratus	3	LC50	MOR	174
Oncorhynchus	mykiss	2	LC50	MOR	175
Jordanella	floridae	4	LC50	MOR	186
Micropterus	salmoides	4	LC50	MOR	189
Carassius	auratus	4	LC50	MOR	190
Pimephales	promelas	4	LC50	MOR	190
Pimephales	promelas	4	LC50	MOR	190
Carassius	auratus	2	LC50	MOR	191
Carassius	auratus	3	LC50	MOR	191
Carassius	auratus	4	LC50	MOR	191
Micropterus	salmoides	4	LC50	MOR	194
Micropterus	salmoides	4	LC50	MOR	194
Pimephales	promelas	4	LC50	MOR	198
Carassius	auratus	4	LC50	MOR	200
Lepomis	macrochirus	4	LC50	MOR	200
Oncorhynchus	mykiss	2	LC50	MOR	200
Pimephales	promelas	1	LC50	MOR	200
Pimephales	promelas	8	LC50	MOR	200
Salmo	trutta	1	LC50	MOR	200

PCP-Fish

Lepomis	macrochirus	2	LC50	MOR	201
Lepomis	macrochirus	1	LC50	MOR	202
Lepomis	macrochirus	4	LC50	MOR	202
Carassius	auratus	1	LC50	MOR	203
Carassius	auratus	2	LC50	MOR	203
Pimephales	promelas	4	LC50	MOR	203
Poecilia	reticulata	4	LC50	MOR	204
Pimephales	promelas	4	LC50	MOR	205
Oncorhynchus	mykiss	1	LC50	MOR	207
Pimephales	promelas	4	LC50	MOR	208
Pimephales	promelas	2	LC50	MOR	210
Pimephales	promelas	1	LC50	MOR	213
Lepomis	macrochirus	1	LC50	MOR	217
Jordanella	floridae	3	LC50	MOR	218
Jordanella	floridae	4	LC50	MOR	218
Pimephales	promelas	4	LC50	MOR	218
Pimephales	promelas	4	LC50	MOR	220
Pimephales	promelas	8	LC50	MOR	220
Pimephales	promelas	1	LC50	MOR	222
Pimephales	promelas	4	LC50	MOR	222
Pimephales	promelas	4	LC50	MOR	222
Pimephales	promelas	1	LC50	MOR	223
Pimephales	promelas	2	LC50	MOR	223
Pimephales	promelas	3	LC50	MOR	223
Lepomis	macrochirus	1	LC50	MOR	224
Jordanella	floridae	2	LC50	MOR	225
Pimephales	promelas	4	LC50	MOR	227
Carassius	auratus	1	LC50	MOR	228
Pimephales	promelas	4	LC50	MOR	230
Pimephales	promelas	4	LC50	MOR	230
Oncorhynchus	mykiss	4	LC50	MOR	232
Pimephales	promelas	1	LC50	MOR	232
Rasbora	daniconia	3	LC50	MOR	232.8
Pimephales	promelas	4	LC50	MOR	233
Pimephales	promelas	4	LC50	MOR	237
Lepomis	macrochirus	4	LC50	MOR	240
Oryzias	latipes	4	LC50	MOR	240
Pimephales	promelas	1	LC50	MOR	240
Pimephales	promelas	4	LC50	MOR	240
Pimephales	promelas	4	LC50	MOR	242
Pimephales	promelas	1	LC50	MOR	244
Pimephales	promelas	2	LC50	MOR	244
Pimephales	promelas	3	LC50	MOR	244
Pimephales	promelas	4	LC50	MOR	244
Pimephales	promelas	1	LC50	MOR	245
Carassius	auratus	4	LC50	MOR	247
Carassius	auratus	1	LC50	MOR	250
Carassius	auratus	1	LC50	MOR	250
Poecilia	reticulata	3	LC50	MOR	259
Jordanella	floridae	1.5	LC50	MOR	260
Lepomis	macrochirus	4	LC50	MOR	260
Pimephales	promelas	4	LC50	MOR	261
Pimephales	promelas	4	LC50	MOR	261
Pimephales	promelas	4	LC50	MOR	266
Carassius	auratus	1	LC50	MOR	267
Lepomis	macrochirus	4	LC50	MOR	270
Micropterus	salmoides	4	LC50	MOR	275
Gambusia	affinis	4	LC50	MOR	278
Pimephales	promelas	2	LC50	MOR	286
Pimephales	promelas	3	LC50	MOR	286
Pimephales	promelas	4	LC50	MOR	286
Micropterus	salmoides	4	LC50	MOR	287

PCP-Fish

Gambusia	affinis	4	LC50	MOR	288
Heteropneustes	fossilis	4	LC50	MOR	290
Oncorhynchus	mykiss	4	LC50	MOR	296
Rasbora	daniconia	2	LC50	MOR	297.2
Pimephales	promelas	4	LC50	MOR	300
Pimephales	promelas	4	LC50	MOR	301
Poecilia	reticulata	2	LC50	MOR	306
Pimephales	promelas	1	LC50	MOR	309
Pimephales	promelas	4	LC50	MOR	314
Jordanella	floridae	1	LC50	MOR	317
Pimephales	promelas	4	LC50	MOR	320
Pimephales	promelas	4	LC50	MOR	320
Carassius	auratus	4	LC50	MOR	328
Heteropneustes	fossilis	3	LC50	MOR	330
Pimephales	promelas	4	LC50	MOR	350
Poecilia	reticulata	7	LC50	MOR	360
Rasbora	daniconia	1	LC50	MOR	360.6
Pimephales	promelas	4	LC50	MOR	378
Heteropneustes	fossilis	2	LC50	MOR	380
Oryzias	latipes	15	EC50	HAT	380
Pimephales	promelas	4	LC50	MOR	381
Pimephales	promelas	4	LC50	MOR	396
Brachydanio	renio	2	LC50	MOR	400
Heteropneustes	fossilis	1	LC50	MOR	410
Colisa	fasciata	4	LC50	MOR	450
Poecilia	reticulata	4	LC50	MOR	450
Pimephales	promelas	4	EC50	HAT	465
Pimephales	promelas	4	LC50	MOR	470
Colisa	fasciata	3	LC50	MOR	480
Oncorhynchus	mykiss	4	LC50	MOR	480
Pimephales	promelas	4	EC50	HAT	480
Rasbora	daniconia	0.5	LC50	MOR	501.2
Pimephales	promelas	4	LC50	MOR	510
Carassius	auratus	4	LC50	MOR	572
Poecilia	reticulata	7	LC50	MOR	580
Carassius	auratus	3	LC50	MOR	581
Carassius	auratus	2	LC50	MOR	592
Pimephales	promelas	1	LC50	MOR	600
Pimephales	promelas	2	LC50	MOR	600
Pimephales	promelas	3	LC50	MOR	600
Pimephales	promelas	4	LC50	MOR	600
Carassius	auratus	1	LC50	MOR	642
Poecilia	reticulata	4	LC50	MOR	677
Poecilia	reticulata	4	LC50	MOR	720
Jordanella	floridae	0.5	LC50	MOR	755
Poecilia	reticulata	7	LC50	MOR	800
Poecilia	reticulata	2	LC50	MOR	820
Poecilia	reticulata	4	LC50	MOR	880
Poecilia	reticulata	4	LC50	MOR	970
Poecilia	reticulata	4	LC50	MOR	1020
Poecilia	reticulata	3	LC50	MOR	1040
Poecilia	reticulata	2	LC50	MOR	1050
Poecilia	reticulata	2	LC50	MOR	1050
Oryzias	latipes	2	LC50	MOR	1100
Poecilia	reticulata	2	LC50	MOR	1100
Poecilia	reticulata	1	LC50	MOR	1150
Poecilia	reticulata	0.5	LC50	MOR	1200
Poecilia	reticulata	1	LC50	MOR	1213
Oncorhynchus	mykiss	4	LC50	MOR	1300
Poecilia	reticulata	0.5	LC50	MOR	1442
Carassius	auratus	1	LC50	MOR	2200
Oncorhynchus	mykiss	4	LC50	MOR	3000

PCP-Fish

Oncorhynchus	mykiss	4	LC50	MOR	3000
Pimephales	promelas	0.042	LC50	MOR	8000
Ictalurus	punctatus	4	LC50	MOR	<
Poecilia	reticulata	4	LC50	MOR	0.16 umol/
Oncorhynchus	mykiss	4	LC50	MOR	.433 umol/
Poecilia	reticulata	4	LC50	MOR	0.44 umol/
Ictalurus	punctatus	4	LC50	MOR	.497 umol/
Lepomis	macrochirus	4	LC50	MOR	.759 umol/
Carassius	auratus	4	LC50	MOR	0.991 umol/
Pimephales	promelas	4	LC50	MOR	1 umol/L
Gambusia	affinis	4	LC50	MOR	1.06 umol/
Poecilia	reticulata	4	LC50	MOR	1.66 umol/
Poecilia	reticulata	4	LC50	MOR	3.42 umol/

Pentachlorophenyl

Species		Duration (days)	Effect	Type	Conc (ug/L)
AMPHIBIANS					
Bufo	bufo	4	LC50*	MOR	100
Bufo	bufo	1	LC50*	MOR	170
Rana	catesbeiana	4	LC50	MOR	207
Xenopus	laevis	2	LC50	MOR	260
Rana	catesbeiana	4	LC50	MOR	0.789 umol/L

Species		Duration (days)	Effect	Type	Conc (ug/L)
PLANTS					
Scenedesmus	quadricauda	4	EC50	GRO	80
Scenedesmus	abundans	4	EC50	GRO	90
Selenastrum	capricornutum	4	EC50	GRO	110
Selenastrum	capricornutum	4	EC50	GRO	150
Lemna	minor	3	LC50*	MOR	190
Selenastrum	capricornutum	4	EC50	GRO	290
Selenastrum	capricornutum	2	EC50	GRO	410
Selenastrum	capricornutum	4	EC50	GRO	420
Selenastrum	capricornutum	4	EC50	GRO	420
Selenastrum	capricornutum	4	EC50	GRO	760
Chlorella	pyrenoidosa	4	EC50	GRO	7000
Chlorella	vulgaris	4	EC50	GRO	10300
Chlorella	vulgaris	4	EC50	GRO	10300

PCP-Inverts

Pentachlorophenyl

Species	Duration (days)	Effect	Type	[Conc] (ug/L)
INVERTEBRATES				
Lymnaea acuminata	4	LC50	MOR	0.16
Lymnaea acuminata	3	LC50	MOR	0.196
Lymnaea acuminata	2	LC50	MOR	0.228
Lymnaea acuminata	1	LC50	MOR	0.263
Lymnaea acuminata	0.5	LC50	MOR	0.293
Dreissena polymorpha	14	LC50	MOR	42
Dreissena polymorpha	7	LC50	MOR	52
Daphnia magna	2	LC50	MOR	55
Gammarus pseudolimnaeus	4	LC50	MOR	92
Chironomus thummi	2	LC50	MOR	110
Dreissena polymorpha	4	LC50	MOR	110
Lymnaea luteola	4	LC50	MOR	112
Gammarus pseudolimnaeus	4	LC50	MOR	121
Daphnia magna	16	EC50	REP	130
Dugesia lugubris	2	LC50	MOR	130
Lymnaea stagnalis	16	EC50	DVP	130
Lymnaea stagnalis	16	EC50	HAT	130
Crangonyx pseudogracilis	4	LC50	MOR	139
Dreissena polymorpha	14	LC50	MOR	140
Aplexa hypnorum	4	LC50	MOR	142
Daphnia magna	2	LC50	MOR	143
Daphnia magna	2	LC50	MOR	145
Ceriodaphnia reticulata	2	LC50	MOR	150
Aplexa hypnorum	4	LC50	MOR	157
Brachionus rubens	1	LC50	MOR	160
Simocephalus vetulus	2	LC50	MOR	160
Ceriodaphnia reticulata	2	LC50	MOR	164
Lymnaea luteola	3	LC50	MOR	177
Dreissena polymorpha	7	LC50	MOR	180
Lymnaea stagnalis	16	LC50	MOR	180
Dreissena polymorpha	4	LC50	MOR	190
Simocephalus vetulus	2	LC50	MOR	196
Simocephalus vetulus	2	LC50	MOR	204
Gammarus fasciatus	4	LC50	MOR	210
Simocephalus vetulus	2	LC50	MOR	217
Crangonyx pseudogracilis	4	LC50	MOR	220
Physa gyrina	4	LC50	MOR	220
Ceriodaphnia reticulata	2	LC50	MOR	240
Daphnia magna	2	LC50	MOR	240
Lymnaea stagnalis	4	LC50	MOR	240
Daphnia pulex	2	LC50	MOR	246
Erpobdella octoculata	2	LC50	MOR	250
Simocephalus vetulus	2	LC50	MOR	250
Simocephalus vetulus	2	LC50	MOR	255
Lymnaea luteola	2	LC50	MOR	257
Daphnia magna	2	LC50	MOR	260
Physa gyrina	4	LC50	MOR	260
Physa gyrina	4	LC50	MOR	267
Gammarus pseudolimnaeus	4	LC50	MOR	280
Gammarus pseudolimnaeus	3	LC50	MOR	290
Daphnia magna	2	LC50	MOR	300
Gillia attilis	4	LC50	MOR	300
Lymnaea stagnalis	2	LC50	MOR	300
Ceriodaphnia dubia	2	LC50	MOR	307
Crangonyx pseudogracilis	4	LC50	MOR	320
Daphnia magna	2	LC50	MOR	320
Daphnia magna	4	LC50	MOR	320
Daphnia magna	4	LC50	MOR	320

PCP-Inverts

Dugesia	tigrina	4	LC50	MOR	320
Daphnia	galeata	2	EC50*	IMM	330
Ceriodaphnia	dubia	2	LC50	MOR	347
Simocephalus	vetulus	2	LC50	MOR	364
Daphnia	magna	2	EC50	IMM	370
Nemoura	cinerea	2	LC50	MOR	380
Chironomus	riparius	1	LC50	MOR	384
Daphnia	magna	1	LC50	MOR	390
Lymnaea	luteola	1	LC50	MOR	399
Daphnia	galeata	1	EC50*	IMM	400
Daphnia	magna	2	LC50	MOR	400
Daphnia	magna	14	LC50	MOR	400
Daphnia	magna	21	LC50	MOR	400
Daphnia	magna	21	LC50	MOR	400
Gammarus	pseudolimnaeus	2.08	LC50	MOR	400
Helisoma	trivolvis	4	LC50	MOR	400
Daphnia	pulex	1	EC50	IMM	410
Daphnia	magna	21	LC50	MOR	430
Daphnia	magna	2	EC50	IMM	440
Chironomus	riparius	1	LC50	MOR	465
Crangonyx	pseudogracilis	4	LC50	MOR	465
Daphnia	magna	21	LC50	MOR	470
Daphnia	magna	21	LC50	MOR	480
Gammarus	fasciatus	4	LC50	MOR	480
Gammarus	pseudolimnaeus	4	LC50	MOR	484
Daphnia	magna	21	LC50	MOR	490
Crangonyx	pseudogracilis	4	LC50	MOR	500
Daphnia	magna	1	EC50	IMM	500
Lymnaea	luteola	0.5	LC50	MOR	507
Daphnia	galeata	2	EC50*	IMM	510
Daphnia	magna	1	EC50	IMM	510
Daphnia	magna	21	LC50	MOR	510
Colisa	fasciata	2	LC50	MOR	520
Daphnia	magna	2	EC50	IMM	550
Daphnia	carinata	1	EC50	IMM	560
Lymnaea	stagnalis	2	LC50	MOR	560
Lymnaea	stagnalis	2	LC50	MOR	560
Colisa	fasciata	1	LC50	MOR	570
Daphnia	magna	7	LC50	MOR	580
Physa	gyrina	4	LC50	MOR	580
Daphnia	magna	2	LC50	MOR	600
Daphnia	magna	7	LC50	MOR	600
Gammarus	pseudolimnaeus	1.08	LC50	MOR	600
Physa	gyrina	4	LC50	MOR	620
Viviparus	bengalensis	4	LC50	IMM	644
Daphnia	magna	1	EC50	IMM	660
Daphnia	magna	1	EC50	IMM	670
Simocephalus	vetulus	2	LC50	MOR	670
Daphnia	magna	2	LC50	MOR	680
Daphnia	magna	4	LC50	MOR	680
Ceriodaphnia	reticulata	2	LC50	MOR	700
Gammarus	pulex	2	LC50	MOR	700
Daphnia	galeata	1	EC50*	IMM	710
Daphnia	magna	1	EC50	IMM	710
Hydra	oligactis	2	LC50	MOR	730
Hydra	oligactis	2	LC50	MOR	730
Physa	gyrina	4	LC50	MOR	730
Dugesia	tigrina	4	LC50	MOR	750
Helisoma	trivolvis	4	LC50	MOR	750
Daphnia	magna	2	LC50	MOR	790
Gammarus	pseudolimnaeus	4	LC50	MOR	790
Daphnia	magna	2	LC50	MOR	800

PCP-Inverts

Daphnia magna	2	LC50	MOR	800
Daphnia magna	4	LC50	MOR	800
Daphnia magna	21	LC50	MOR	800
Gillia altilis	4	LC50	MOR	810
Physa gyrina	4	LC50	MOR	810
Viviparus bengalensis	4	LC50	MOR	840
Viviparus bengalensis	4	LC50	IMM	842
Gammarus pseudolimnaeus	30	LC50	MOR	860
Ceriodaphnia reticulata	2	EC50	IMM	900
Crangonyx pseudogracilis	4	LC50	MOR	929
Daphnia magna	2	EC50	IMM	950
Daphnia magna	2	EC50	IMM	1000
Daphnia magna	2	LC50	MOR	1000
Tubificidae	2	LC50	MOR	1000
Viviparus bengalensis	3	LC50	IMM	1032
Viviparus bengalensis	3	LC50	MOR	1040
Daphnia magna	2	LC50	MOR	1050
Viviparus bengalensis	3	LC50	IMM	1050
Daphnia pulex	2	EC50	IMM	1100
Daphnia magna	3	EC50*	IMM	1150
Daphnia magna	3	LC50	MOR	1150
Gammarus pseudolimnaeus	4	LC50	MOR	1150
Daphnia magna	1	LC50	MOR	1200
Pteronarcys dorsata	4	LC50	MOR	1210
Physa gyrina	4	LC50	MOR	1250
Philactis quaeris	4	LC50	MOR	1260
Daphnia magna	3	EC50*	IMM	1270
Daphnia magna	3	LC50	MOR	1270
Callibaetis skokianus	4	LC50	MOR	1300
Daphnia magna	1	LC50	MOR	1300
Crangonyx pseudogracilis	4	LC50	MOR	1344
Daphnia magna	3	EC50*	IMM	1370
Daphnia magna	3	LC50	MOR	1370
Gammarus pseudolimnaeus	4	LC50	MOR	1370
Physa gyrina	4	LC50	MOR	1380
Viviparus bengalensis	4	LC50	IMM	1390
Daphnia magna	2	LC50	MOR	1400
Daphnia magna	3	EC50*	IMM	1410
Viviparus bengalensis	2	LC50	IMM	1420
Viviparus bengalensis	3	LC50	IMM	1475
Viviparus bengalensis	4	LC50	IMM	1480
Daphnia cucullata	2	LC50	MOR	1500
Daphnia magna	2	EC50*	IMM	1500
Daphnia magna	1	LC50	MOR	1500
Daphnia magna	2	LC50	MOR	1500
Daphnia magna	2	LC50	MOR	1500
Daphnia magna	3	LC50	MOR	1530
Daphnia magna	2	EC50*	IMM	1540
Daphnia magna	2	LC50	MOR	1540
Crangonyx pseudogracilis	4	LC50	MOR	1550
Viviparus bengalensis	2	LC50	IMM	1561
Viviparus bengalensis	2	LC50	IMM	1569
Daphnia magna	2	EC50*	IMM	1570
Viviparus bengalensis	2	LC50	MOR	1570
Viviparus bengalensis	1	LC50	IMM	1630
Daphnia magna	1	LC50	MOR	1700
Daphnia magna	1	LC50	MOR	1700
Daphnia magna	2	LC50	MOR	1700
Viviparus bengalensis	1	LC50	MOR	1740
Viviparus bengalensis	1	LC50	IMM	1741
Viviparus bengalensis	1	LC50	IMM	1748
Daphnia magna	1	EC50*	IMM	1750

PCP-Inverts

Viviparus	bengalensis	0.5	LC50	IMM	1752
Callibaetis	skokianus	4	LC50	MOR	1780
Daphnia	magna	2	EC50*	IMM	1780
Daphnia	magna	2	LC50	MOR	1780
Viviparus	bengalensis	3	LC50	IMM	1794
Daphnia	magna	3	EC50*	IMM	1830
Daphnia	magna	1	LC50	MOR	1840
Daphnia	magna	1	EC50*	IMM	1870
Daphnia	magna	1	LC50	MOR	1870
Crangonyx	pseudogracilis	4	LC50	MOR	1890
Chironomus	riparius	1	LC50	MOR	1948
Viviparus	bengalensis	0.5	LC50	IMM	1979
Crangonyx	pseudogracilis	4	LC50	MOR	2000
Daphnia	pulex	2	LC50	MOR	2000
Viviparus	bengalensis	0.5	LC50	MOR	2130
Brachionus	calyciflorus	1	LC50	MOR	2160
Viviparus	bengalensis	0.5	LC50	IMM	2166
Viviparus	bengalensis	2	LC50	IMM	2197
Daphnia	magna	2	EC50*	IMM	2200
Daphnia	magna	3	LC50	MOR	2210
Daphnia	magna	1	EC50*	IMM	2220
Daphnia	magna	1	LC50	MOR	2220
Daphnia	magna	3	EC50*	IMM	2360
Asellus	racovitzai	4	LC50	MOR	2370
Daphnia	magna	2	LC50	MOR	2390
Daphnia	magna	3	LC50	MOR	2460
Daphnia	magna	1	EC50*	IMM	2550
Daphnia	magna	2	EC50*	IMM	2570
Viviparus	bengalensis	1	LC50	IMM	2579
Daphnia	magna	1	EC50*	IMM	2630
Daphnia	magna	1	LC50	MOR	2630
Crangonyx	pseudogracilis	4	LC50	MOR	2770
Daphnia	magna	2	LC50	MOR	2790
Daphnia	magna	1	LC50	MOR	2800
Asellus	aquaticus	2	LC50	MOR	2900
Viviparus	bengalensis	0.5	LC50	IMM	2976
Daphnia	magna	1	LC50	MOR	2980
Crangonyx	pseudogracilis	4	LC50	MOR	3120
Asellus	intermedius	4	LC50	MOR	3200
Lumbriculus	variegatus	4	LC50	MOR	3200
Lumbriculus	variegatus	4	LC50	MOR	3200
Asellus	racovitzai	4	LC50	MOR	3400
Daphnia	magna	1	EC50*	IMM	3600
Daphnia	pulex	2	EC50*	IMM	3660
Daphnia	magna	1	LC50	MOR	3910
Asellus	racovitzai	4	LC50	MOR	4320
Daphnia	pulex	2	EC50*	IMM	4590
Cloeon	dipterum	2	LC50	MOR	5900
Daphnia	pulex	1	EC50*	IMM	6280
Gillia	altilis	0.17	LC50	MOR	6500
Cypris	subglobosa	4	LC50	MOR	6560
Daphnia	pulex	1	EC50*	IMM	6830
Aedes	aegypti	2	LC50	MOR	7200
Astacus	fluviatilis	8	LC50	MOR	9000
Corixa	punctata	2	LC50	MOR	11000
Cypris	subglobosa	3	LC50	MOR	11130
Cypris	subglobosa	2	LC50	MOR	12980
Cypris	subglobosa	1	LC50	MOR	14870
Cypris	subglobosa	0.5	LC50	MOR	18860
Tanytarsus	dissimilis	2	LC50	MOR	19000
Gillia	altilis	0.17	LC50	MOR	27000
Tanytarsus	dissimilis	2	LC50	MOR	31300

PCP-Inverts

Asellus	intermedius	4	LC50	MOR	32000
Culex	pipiens	2	LC50	MOR	34000
Ischnura	elegans	2	LC50	MOR	42000
Tanytarsus	dissimilis	2	LC50	MOR	46000
Astacus	fluviatilis	8	LC50	MOR	53000
Tanytarsus	dissimilis	1	LC50	MOR	84800
Daphnia	magna	2	EC50	IMM	187000
Ceriodaphnia	dubia	1	EC50	IMM	202000
Simocephalus	vetulus	1	EC50	IMM	206000
Daphnia	magna	1	EC50	IMM	343000
Daphnia	carinata	1	EC50	IMM	570000
Chironomus	riparius	1	EC50	IMM	631000
Chironomus	riparius	1	EC50	IMM	1176000
Chironomus	riparius	1	EC50	IMM	1556000
Ceriodaphnia	pulchella	1	EC50	IMM	1790000
Asellus	racovitzai	4	LC50	MOR	>7770
Orconectes	immunis	4	LC50	MOR	>687 umol/L
Orconectes	immunis	4	LC50	MOR	>183000
Gillia	atilis	0.17	LC50	MOR	100 uM
Daphnia	magna	7	LC50	MOR	2uM
Gillia	atilis	0.17	LC50	MOR	70 uM
Gillia	atilis	0.17	LC50	MOR	85uM
Tanytarsus	dissimilis	2	LC50	MOR	94.6 umol/L

Phenol-Fish

Phenol

Species	Duration (days)	Effect	Type	[Conc] (ug/L)
INVERTEBRATES				
Oncorhynchus mykiss	27	LC50	MOR	70
Oncorhynchus mykiss	22	LC50	MOR	80
Oncorhynchus mykiss	26	LC50	MOR	80
Oncorhynchus mykiss	30	LC50	MOR	80
Oncorhynchus mykiss	27	LC50	MOR	120
Oncorhynchus mykiss	23	LC50	MOR	150
Oncorhynchus mykiss	27	LC50	MOR	150
Carassius auratus	11.5	LC50	MOR	330
Carassius auratus	7.5	LC50	MOR	450
Oncorhynchus mykiss	30	LC50	MOR	540
Oncorhynchus mykiss	26	LC50	MOR	560
Oncorhynchus mykiss	22	LC50	MOR	640
Carassius auratus	3.5	LC50	MOR	710
Carassius auratus	11.5	LC50	MOR	1190
Carassius auratus	7.5	LC50	MOR	1330
Cirrhinus mrigala	4	LC50	MOR	1555
Cyprinus carpio	2	LC50*	MOR	1700
Carassius auratus	3.5	LC50	MOR	2450
Notopterus notopterus	4	LC50	MOR	2480
Micropterus salmoides	7	LC50	MOR	2670
Notopterus notopterus	3	LC50	MOR	2780
Micropterus salmoides	7	LC50	MOR	2800
Notopterus notopterus	3	LC50	MOR	2970
Notopterus notopterus	1	LC50	MOR	3110
Notopterus notopterus	2	LC50	MOR	3250
Cyprinus carpio	1	LC50*	MOR	3600
Notopterus notopterus	1	LC50	MOR	3650
Oncorhynchus mykiss	2	LC50*	MOR	4000
Oncorhynchus mykiss	2	LC50	MOR	5000
Oncorhynchus mykiss	4	LC50	MOR	5020
Jordanella floridae	0.083	LC50	~MOR	5100
Oncorhynchus mykiss	2	LC50	MOR	5100
Oncorhynchus mykiss	2	LC50	MOR	5400
Oncorhynchus mykiss	2	LC50	MOR	5400
Oncorhynchus mykiss	2	LC50	MOR	5400
Oncorhynchus mykiss	1	LC50	MOR	5600
Notopterus notopterus	4	LC50	MOR	6650
Rasbora heteromorpha	2	LC50*	MOR	6800
Notopterus notopterus	4	LC50	MOR	6850
Notopterus notopterus	3	LC50	MOR	7100
Notopterus notopterus	3	LC50	MOR	7200
Notopterus notopterus	2	LC50	MOR	7400
Rasbora heteromorpha	2	LC50*	MOR	7400
Notopterus notopterus	2	LC50	MOR	7620
Notopterus notopterus	1	LC50	MOR	7850
Esox lucius	3	LC50	MOR	8000
Notopterus notopterus	1	LC50	MOR	8000
Oncorhynchus mykiss	2	LC50	MOR	8000
Notopterus notopterus	4	LC50	MOR	8150
Notopterus notopterus	4	LC50	MOR	8150
Rasbora heteromorpha	1	LC50*	MOR	8200
Oncorhynchus mykiss	1	LC50	MOR	8210
Notopterus notopterus	3	LC50	MOR	8500
Oryzias latipes	15	EC50	HAT	8500
Notopterus notopterus	2	LC50	MOR	8800
Oncorhynchus mykiss	4	LC50	MOR	8900
Oncorhynchus mykiss	4	LC50	MOR	8900
Oncorhynchus mykiss	2	LC50	MOR	9000

Phenol-Fish

Oncorhynchus mykiss	2	LC50	MOR	9200
Oncorhynchus mykiss	2	LC50	MOR	9300
Oncorhynchus mykiss	2	LC50	MOR	9300
Oncorhynchus mykiss	2	LC50	MOR	9400
Notopterus notopterus	1	LC50	MOR	9410
Oncorhynchus mykiss	2	LC50	MOR	9500
Oncorhynchus mykiss	2	LC50	MOR	9600
Oncorhynchus mykiss	4	LC50	MOR	9680
Oncorhynchus mykiss	2	LC50	MOR	9780
Oncorhynchus mykiss	2	LC50	MOR	9800
Oncorhynchus mykiss	4	LC50	MOR	9900
Rutilus rutilus	0.3	LC50	MOR	10000
Oncorhynchus mykiss	2	LC50	MOR	10100
Oncorhynchus mykiss	2	LC50	MOR	10200
Oncorhynchus mykiss	2	LC50	MOR	10400
Oncorhynchus mykiss	4	LC50	MOR	10500
Catostomus commersoni	4	LC50	MOR	10600
Oncorhynchus mykiss	1	LC50	MOR	11000
Rasbora heteromorpha	1	LC50*	MOR	11000
Oncorhynchus mykiss	1	LC50	MOR	11300
Lepomis macrochirus	4	LC50	MOR	11500
Notopterus notopterus	4	LC50	MOR	11500
Oncorhynchus mykiss	2	LC50	MOR	11600
Oncorhynchus mykiss	4	LC50	MOR	11600
Salvelinus fontinalis	1	LC50*	MOR	11700
Notopterus notopterus	3	LC50	MOR	11750
Notopterus notopterus	2	LC50	MOR	12200
Notopterus notopterus	4	LC50	MOR	12530
Notopterus notopterus	4	LC50	MOR	12530
Notopterus notopterus	4	LC50	MOR	12530
Notopterus notopterus	4	LC50	MOR	12530
Notopterus notopterus	4	LC50	MOR	12530
Notopterus notopterus	4	LC50	MOR	12530
Notopterus notopterus	1	LC50	MOR	12750
Heteropneustes fossilis	4	LC50	MOR	12970
Oncorhynchus mykiss	0.23	LC50	MOR	13000
Oncorhynchus mykiss	0.23	LC50	MOR	13000
Oncorhynchus mykiss	0.23	LC50	MOR	13000
Notopterus notopterus	4	LC50	MOR	13050
Notopterus notopterus	3	LC50	MOR	13060
Notopterus notopterus	3	LC50	MOR	13060
Notopterus notopterus	3	LC50	MOR	13060
Notopterus notopterus	3	LC50	MOR	13060
Notopterus notopterus	3	LC50	MOR	13060
Notopterus notopterus	4	LC50	MOR	13400
Lepomis macrochirus	4	LC50	MOR	13500
Lepomis macrochirus	4	LC50*	MOR	13500
Notopterus notopterus	4	LC50	MOR	13600
Notopterus notopterus	2	LC50	MOR	13610
Notopterus notopterus	2	LC50	MOR	13610
Notopterus notopterus	2	LC50	MOR	13610
Notopterus notopterus	2	LC50	MOR	13610
Notopterus notopterus	2	LC50	MOR	13610
Notopterus notopterus	3	LC50	MOR	13650
Notopterus notopterus	3	LC50	MOR	13700
Heteropneustes fossilis	3	LC50	MOR	13840
Notopterus notopterus	3	LC50	MOR	13950
Notopterus notopterus	2	LC50	MOR	14000
Notopterus notopterus	1	LC50	MOR	14030
Notopterus notopterus	1	LC50	MOR	14030
Notopterus notopterus	1	LC50	MOR	14030
Notopterus notopterus	1	LC50	MOR	14030

Phenol-Fish

Notopterus	notopterus	1	LC50	MOR	14030
Notopterus	notopterus	2	LC50	MOR	14050
Notopterus	notopterus	2	LC50	MOR	14300
Heteropneustes	fossiliis	2	LC50	MOR	14360
Notopterus	notopterus	1	LC50	MOR	14400
Notopterus	notopterus	1	LC50	MOR	14500
Notopterus	notopterus	1	LC50	MOR	14800
Heteropneustes	fossiliis	1	LC50	MOR	15940
Ictalurus	punctatus	2	LC50	MOR	16700
Ictalurus	punctatus	3	LC50	MOR	16700
Ictalurus	punctatus	4	LC50	MOR	16700
Lepomis	macrochirus	4	LC50	MOR	17400
Campostoma	anomalum	2	LC50	MOR	17900
Notopterus	notopterus	4	LC50	MOR	18150
Notopterus	notopterus	3	LC50	MOR	18550
Notopterus	notopterus	2	LC50	MOR	18950
Lepomis	macrochirus	1	LC50	MOR	19000
Lepomis	macrochirus	1	LC50	MOR	19000
Lepomis	macrochirus	2	LC50	MOR	19000
Tilapia	mossambica	4	LC50	MOR	19000
Lepomis	macrochirus	4	LC50	MOR	19300
Notopterus	notopterus	1	LC50	MOR	19400
Lepomis	macrochirus	4	LC50	MOR	20000
Lepomis	macrochirus	2	LC50	MOR	20500
Pimephales	promelas	8	LC50	MOR	22000
Poecilia	latipinna	2.08	LC50*	MOR	22000
Lepomis	macrochirus	2	LC50	MOR	22200
Lepomis	macrochirus	1	LC50	MOR	22700
Pimephales	promelas	4	LC50	MOR	23000
Pimephales	promelas	8	LC50	MOR	23000
Lepomis	macrochirus	2	LC50	MOR	23880
Lepomis	macrochirus	4	LC50	MOR	23880
Gasterosteus	aculeatus	1	LC50	MOR	24000
Pimephales	promelas	4	LC50	MOR	24000
Pimephales	promelas	4	LC50	MOR	2.48E+04
Pimephales	promelas	4	LC50	MOR	24900
Tilapia	mossambica	2	LC50	MOR	25000
Pimephales	promelas	4	LC50	MOR	25300
Pimephales	promelas	4	LC50	MOR	25600
Lepomis	macrochirus	1	LC50	MOR	25850
Gambusia	affinis	4	LC50	MOR	26000
Tilapia	mossambica	1	LC50	MOR	27000
Pimephales	promelas	2	LC50	MOR	28000
Pimephales	promelas	4	LC50	MOR	28000
Pimephales	promelas	4	LC50	MOR	28800
Brachydanio	rerio	4	LC50	MOR	29000
Pimephales	promelas	4	LC50	MOR	29000
Notopterus	notopterus	4	LC50	MOR	29200
Oryzias	latipes	4	LC50	MOR	29300
Oryzias	latipes	1	LC50	MOR	30000
Oryzias	latipes	2	LC50	MOR	30000
Heteropneustes	fossiliis	2	LC50	MOR	30050
Notopterus	notopterus	2	LC50	MOR	30300
Heteropneustes	fossiliis	4	LC50	MOR	30500
Brachydanio	rerio	2	LC50	MOR	30900
Ictalurus	punctatus	NR	LC50	MOR	31000
Poecilia	reticulata	4	LC50	MOR	31000
Pimephales	promelas	4	LC50	MOR	31200
Clarias	batrachus	2	LC50*	MOR	31500
Pimephales	promelas	4	LC50	MOR	32000
Pimephales	promelas	4	LC50	MOR	32000
Pimephales	promelas	4	LC50	MOR	32000

Phenol-Fish

Pimephales	promelas	4	LC50	MOR	32400
Pimephales	promelas	3	LC50	MOR	33000
Poecilia	reticulata	2	LC50	MOR	34000
Pimephales	promelas	4	LC50	MOR	34270
Gambusia	affinis	2	LC50	MOR	34500
Notemigonus	crysoleucas	1	LC50	MOR	35000
Poecilia	reticulata	1	LC50	MOR	35200
Pimephales	promelas	4	LC50	MOR	36000
Jordanella	floridae	2	LC50	MOR	36300
Jordanella	floridae	4	LC50	MOR	36300
Heteropneustes	fossilis	4	LC50	MOR	37400
Gambusia	affinis	2	LC50	MOR	37600
Heteropneustes	fossilis	3	LC50	MOR	37700
Heteropneustes	fossilis	1	LC50	MOR	38400
Pimephales	promelas	1	LC50	MOR	38620
Pimephales	promelas	2	LC50	MOR	38620
Poecilia	reticulata	4	LC50	MOR	39190
Heteropneustes	fossilis	4	LC50	MOR	39400
Heteropneustes	fossilis	4	LC50	MOR	39400
Oryzias	latipes	1	LC50	MOR	40000
Oryzias	latipes	2	LC50	MOR	40000
Pimephales	promelas	4	LC50	MOR	40000
Pimephales	promelas	2	LC50*	MOR	40000
Pimephales	promelas	2	LC50*	MOR	40000
Poecilia	reticulata	4	LC50	MOR	40000
Heteropneustes	fossilis	3	LC50	MOR	40200
Heteropneustes	fossilis	3	LC50	MOR	40200
Pimephales	promelas	1	LC50	MOR	40600
Pimephales	promelas	2	LC50	MOR	40600
Heteropneustes	fossilis	2	LC50	MOR	40800
Heteropneustes	fossilis	2	LC50	MOR	40800
Pimephales	promelas	2	LC50	MOR	41000
Heteropneustes	fossilis	1	LC50	MOR	41900
Heteropneustes	fossilis	1	LC50	MOR	41900
Pimephales	promelas	4	LC50	MOR	43700
Poecilia	reticulata	4	LC50	MOR	44000
Carassius	auratus	4	LC50	MOR	44490
Carassius	auratus	1	LC50	MOR	46000
Channa	punctatus	2	LC50*	MOR	46000
Gambusia	affinis	2	LC50	MOR	46000
Poecilia	reticulata	1	LC50	MOR	46000
Poecilia	reticulata	4	LC50	MOR	47500
Poecilia	reticulata	2	LC50	MOR	48000
Gasterosteus	aculeatus	1	LC50	MOR	49000
Carassius	auratus	2	LC50	MOR	49130
Pimephales	promelas	4	LC50	MOR	49700
Carassius	auratus	1	LC50	MOR	49860
Poecilia	reticulata	1	LC50	MOR	49860
Poecilia	reticulata	2	LC50	MOR	49860
Cyprinus	carpio	2	LC50*	MOR	50000
Poecilia	reticulata	3	LC50	MOR	50000
Poecilia	reticulata	1	LC50	MOR	52000
Heteropneustes	fossilis	4	LC50	MOR	54080
Heteropneustes	fossilis	3	LC50	MOR	55940
Gambusia	affinis	2	LC50*	MOR	56000
Gambusia	affinis	4	LC50*	MOR	56000
Heteropneustes	fossilis	2	LC50	MOR	57230
Heteropneustes	fossilis	1	LC50	MOR	59810
Brachydanio	rerio	2	LC50	MOR	60000
Carassius	auratus	1	LC50	MOR	60000
Lepomis	macrochirus	1	LC50	MOR	60000
Gambusia	affinis	1	LC50*	MOR	61000

Phenol-Fish

Poecilia	latipinna	1.04	LC50*	MOR	63000
Poecilia	reticulata	2	LC50	MOR	63500
Pimephales	promelas	4	LC50	MOR	67500
Pimephales	promelas	4	LC50	MOR	67500
Gambusia	affinis	1	LC50	MOR	73000
Poecilia	reticulata	1	LC50	MOR	82500
Oryzias	latipes	2	LC50	MOR	100000
Poecilia	reticulata	0.5	LC50	MOR	102500
Notemigonus	crysoleucas	1	LC50	MOR	129000
Oryzias	latipes	1	LC50	MOR	150000
Carassius	auratus	1	LC50	MOR	200000
Lepomis	macrochirus	1.04	LC50*	MOR	>10000
Micropterus	salmoides	3	LC50	MOR	>5370
Pimephales	promelas	0.042	LC50	MOR	>50000
Pimephales	promelas	1	LC50	MOR	>50000
Pimephales	promelas	2	LC50	MOR	>50000

Phenol P&A

Phenol

Species		Duration (days)	Effect	Type	Conc (ug/L)
AMPHIBIANS					
Rana	pipiens	9	EC50	TER	40
Rana	pipiens	5	EC50	TER	50
Rana	catesbeiana	8	EC50	TER	230
Rana	catesbeiana	4	EC50	TER	600
Bufo	woodhousei	7	EC50	TER	2450
Rana	palustris	8	EC50	TER	9870
Rana	palustris	4	EC50	TER	11230
Bufo	americanus	3	EC50	TER	>890
Bufo	americanus	7	EC50	TER	>890
Bufo	woodhousei	3	EC50	TER	>10000
Xenopus	laevis	4	LC50	MOR	>51100

Species		Duration (days)	Effect	Type	Conc (ug/L)
PLANTS					
Selenastrum	capricornutum	4	EC50	GRO	150000
Selenastrum	capricornutum	4	EC50	GRO	150000
Nitzschia	linearis	5	LC50*	MOR	258000
Chlorella	vulgaris	4	EC50	GRO	370000
Chlorella	vulgaris	4	EC50	GRO	370000
Lemna	minor	3	LC50*	MOR	1500000
Lemna	minor	4	EC50	GRO	>12000

Phenol Inverts

Phenol

Species		Duration (days)	Effect	Type	Conc (ug/L)
INVERTEBRATES					
Gammarus	pulex	4	LC50	~MOR	45
Lymnaea	acuminata	4	LC50	MOR	128.75
Lymnaea	acuminata	3	LC50	MOR	157.5
Lymnaea	acuminata	2	LC50	MOR	205
Lymnaea	acuminata	1	LC50	MOR	218.75
Lymnaea	acuminata	0.5	LC50	MOR	270
Baetis	sp	2	LC50	MOR	2000
Leptocerus	aterrimus	2	LC50	MOR	2000
Limnephilus	flavicornis	2	LC50	MOR	2000
Phryganea	striata	2	LC50	MOR	2000
Ceriodaphnia	dubia	2	LC50	MOR	3100
Colisa	fasciata	4	LC50	MOR	3270
Ceriodaphnia	dubia	2	LC50	MOR	3810
Daphnia	magna	4	LC50	MOR	4000
Daphnia	magna	4	LC50	MOR	4000
Daphnia	magna	11	LC50	MOR	4000
Daphnia	magna	2	EC50	IMM	4200
Daphnia	magna	2	EC50	IMM	4240
Ceriodaphnia	dubia	2	LC50	MOR	4300
Ceriodaphnia	dubia	2	LC50	MOR	4470
Ceriodaphnia	dubia	2	LC50	MOR	4650
Ceriodaphnia	dubia	7	EC50*	REP	4800
Cloeon	dipterum	2	LC50	MOR	5000
Ceriodaphnia	dubia	7	EC50*	REP	5000
Ceriodaphnia	dubia	4	EC50*	REP	5300
Ceriodaphnia	dubia	4	EC50*	REP	5800
Daphnia	magna	9.00-	EC50	REP	6000
Sida	crystallina	2	LC50	MOR	6000
Daphnia	magna	2	EC50	IMM	6600
Ceriodaphnia	dubia	7.00-	EC50	REP	7000
Daphnia	magna	9.00-	EC50	REP	7000
Daphnia	magna	9.00-	EC50	REP	7000
Daphnia	magna	2.08	LC50*	MOR	7000
Limnephilus	stigma	2	LC50	MOR	7000
Nemoura	marginata	2	LC50	MOR	7000
Ceriodaphnia	dubia	2	LC50	MOR	7800
Ceriodaphnia	dubia	7.00-	EC50	REP	8000
Daphnia	magna	2	LC50	MOR	8600
Canthocamptus	sp	2	LC50*	MOR	8800
Ceriodaphnia	dubia	8	LC50	MOR	9000
Plecoglossus	altivelis	2	LC50*	MOR	9000
Colisa	fasciata	4	LC50	MOR	9100
Colisa	fasciata	3	LC50	MOR	9400
Ceriodaphnia	dubia	7.00-	EC50	REP	10000
Daphnia	magna	2	EC50	IMM	10000
Daphnia	magna	16	EC50	REP	10000
Sigara	alternata	1	LC50	MOR	10000
Colisa	fasciata	2	LC50	MOR	10600
Daphnia	magna	2	LC50	MOR	11200
Daphnia	magna	2	LC50	MOR	11500
Daphnia	magna	2	LC50	MOR	12000
Ceriodaphnia	dubia	2	LC50	MOR	12100
Daphnia	magna	2	EC50	IMM	12600
Daphnia	magna	2	LC50	MOR	12800
Daphnia	magna	2	LC50	MOR	12900
Daphnia	magna	2	LC50	MOR	13000
Ceriodaphnia	dubia	2	LC50	MOR	13200
Daphnia	magna	2	LC50	MOR	13300

Phenol Inverts

Daphnia magna	2	LC50	MOR	14500
Daphnia magna	2	EC50	IMM	15000
Baetis rhodani	4	LC50	MOR	15500
Acilius sulcatus	2	LC50	MOR	16000
Eusimulium sp	2	LC50	MOR	16000
Daphnia magna	1.04	LC50*	MOR	17000
Ceriodaphnia dubia	2	LC50	MOR	17200
Daphnia longispina	2	LC50	MOR	18000
Baetis rhodani	2	LC50	MOR	18500
Baetis rhodani	1	LC50	MOR	19000
Daphnia magna	2	LC50	MOR	19800
Ceriodaphnia dubia	2	LC50	MOR	20000
Chydorus sphaericus	2	LC50	MOR	20000
Daphnia magna	1	EC50	IMM	21000
Daphnia magna	2.08	LC50*	MOR	21000
Gammarus fasciatus	4	LC50	MOR	21000
Daphnia magna	2	LC50	MOR	21300
Siphonurus linnaeanus	2	LC50	MOR	22000
Daphnia magna	2	LC50	MOR	23000
Daphnia magna	2	EC50	IMM	23500
Platycnemis pennipes	2	LC50	MOR	24000
Asellus intermedius	4	LC50	MOR	25000
Gammarus fasciatus	4	LC50	MOR	25000
Coenagrion pulchellum	2	LC50	MOR	28000
Colisa fasciata	4	LC50	MOR	28930
Daphnia magna	1	LC50	MOR	29000
Colisa fasciata	3	LC50	MOR	29320
Colisa fasciata	2	LC50	MOR	29780
Aeshna cyanea	2	LC50	MOR	30000
Cloeon dipterum	2	LC50*	MOR	30000
Daphnia magna	2	EC50	IMM	30000
Lestes dryas	2	LC50	MOR	30000
Sympetrum flaveolum	2	LC50	MOR	30000
Colisa fasciata	1	LC50	MOR	30100
Daphnia magna	2	LC50	MOR	30100
Daphnia magna	1	LC50	MOR	31000
Daphnia magna	1	EC50	IMM	32000
Daphnia magna	2	LC50	MOR	32000
Dugesia tigrina	4	LC50	MOR	32000
Colisa fasciata	4	LC50	MOR	32700
Colisa fasciata	3	LC50	MOR	33050
Colisa fasciata	3	LC50	MOR	33050
Colisa fasciata	2	LC50	MOR	33400
Colisa fasciata	2	LC50	MOR	33410
Colisa fasciata	1	LC50	MOR	33900
Colisa fasciata	1	LC50	MOR	33900
Gammarus pulex	4	LC50	~MOR	34000
Bosmina coregoni	2	LC50	MOR	36000
Daphnia pulex	2	LC50	MOR	36000
Gammarus minus	2	LC50	MOR	37400
Diaptomus forbesi	4	LC50	MOR	39700
Asellus aquaticus	6	LC50*	MOR	40000
Gammarus pulex	4	LC50	MOR	40000
Ceriodaphnia pulchella	2	LC50	MOR	42000
Gammarus pulex	3	LC50	MOR	43000
Daphnia pulex	1	EC50	IMM	45000
Dytiscus marginalis	2	LC50	MOR	46000
Illybius augustior	2	LC50	MOR	46000
Lynceus brachyurus	2	LC50	MOR	47000
Colisa fasciata	4	LC50	MOR	49180
Aedes cyprius	2	LC50	MOR	50000
Cryophila lapponica	2	LC50	MOR	50000

Phenol Inverts

Mochlonyx	culiciformis	2	LC50	MOR	50000
Colisa	fasciata	3	LC50	MOR	50950
Gammarus	pulex	4	LC50	MOR	51000
Daphnia	magna	1	EC50	IMM	52000
Colisa	fasciata	2	LC50	MOR	52310
Colisa	fasciata	1	LC50	MOR	54740
Gammarus	pulex	2	LC50	MOR	55000
Brachionus	calyciflorus	2	EC50	REP	59000
Dugesia	tigrina	4	LC50	MOR	59000
Daphnia	magna	1.04	LC50*	MOR	61000
Polycelis	felina	4	LC50*	MOR	64000
Gammarus	pulex	3	LC50	MOR	67000
Chilomonas	paramecium	4.08-	EC50	GRO	68000
Gammarus	pulex	4	LC50	MOR	69000
Viviparus	bengalensis	4	LC50	MOR	69000
Einfeldia	natchitocheae	2	LC50	MOR	69800
Tanypus	neopunctipennis	2	LC50	MOR	70000
Cypris	subglobosa	4	LC50	MOR	71780
Tanypus	neopunctipennis	2	LC50	MOR	72700
Asellus	aquaticus	2	LC50	MOR	75000
Chilomonas	paramecium	0.79-	EC50	GRO	79000
Daphnia	pulex	2	LC50	MOR	79000
Clinotanypus	pinguis	2	LC50	MOR	80500
Clinotanypus	pinguis	2	LC50	MOR	80500
Daphnia	pulex	2	LC50	MOR	81000
Daphnia	pulex	2	LC50	MOR	85000
Gammarus	pulex	2	LC50	MOR	85000
Daphnia	pulex	2	LC50	MOR	87800
Daphnia	magna	2	LC50	MOR	88000
Polycelis	tenuis	4	LC50	MOR	88000
Gammarus	pulex	2	LC50	MOR	89000
Daphnia	magna	2	LC50	MOR	91000
Daphnia	magna	2	LC50	MOR	91200
Daphnia	magna	2	LC50	MOR	92000
Daphnia	pulex	2	LC50	MOR	93000
Daphnia	magna	1	LC50	MOR	94000
Physella	heterostropha	4	LC50*	MOR	94000
Chilomonas	paramecium	1.83-	EC50	GRO	95000
Daphnia	carinata	1	EC50	IMM	95000
Daphnia	pulex	1	LC50	MOR	97000
Asellus	intermedius	4	LC50	MOR	100000
Daphnia	magna	1	LC50	MOR	100000
Daphnia	magna	2	LC50	MOR	100000
Daphnia	magna	1	LC50*	MOR	100000
Daphnia	magna	2	LC50*	MOR	100000
Dugesia	lugubris	2	LC50	MOR	100000
Gammarus	pulex	1	LC50	MOR	100000
Helisoma	trivolvis	4	LC50	MOR	100000
Lumbriculus	variegatus	4	LC50	MOR	100000
Orthocladus	sp	2	LC50	MOR	100000
Daphnia	pulex	1	LC50	MOR	101000
Daphnia	magna	1	LC50	MOR	102000
Daphnia	magna	1	LC50	MOR	102000
Daphnia	pulex	1	LC50	MOR	102500
Lymnaea	luteola	4	LC50	MOR	102600
Chironomus	tentans	2	LC50	MOR	105000
Gammarus	pulex	1	LC50	MOR	106000
Physa	integra	2	LC50	MOR	107000
Daphnia	pulex	1	LC50	MOR	109000
Sigara	striata	2	LC50*	MOR	110000
Daphnia	pulex	1	LC50	MOR	111000
Gammarus	pulex	1	LC50	MOR	112000

Phenol Inverts

Daphnia	magna	1	LC50	MOR	115000
Colisa	fasciata	1	LC50	MOR	118000
Chaetogaster	diaphanus	2	LC50	MOR	120000
Stylaria	lacustris	2	LC50	MOR	120000
Lymnaea	luteola	3	LC50	MOR	121600
Cypris	subglobosa	3	LC50	MOR	122100
Indoplanorbis	exustus	4	LC50	MOR	125750
Cypris	subglobosa	2	LC50	MOR	137200
Mesostoma	ehrenbergi	2	LC50	MOR	150000
Viviparus	bengalensis	2	LC50	MOR	152500
Indoplanorbis	exustus	3	LC50	MOR	155500
Dugesia	tigrina	4	LC50	MOR	157000
Lymnaea	luteola	2	LC50	MOR	159200
Sigara	striata	2	LC50	MOR	165000
Cypris	subglobosa	1	LC50	MOR	166700
Cypris	subglobosa	0.5	LC50	MOR	172900
Asellus	aquaticus	4	LC50	MOR	180000
Lymnaea	luteola	1	LC50	MOR	180700
Chironomus	tentans	2	LC50	MOR	187100
Chironomus	tentans	2	LC50	MOR	187200
Anopheles	maculipennis	2	LC50	MOR	190000
Asellus	aquaticus	2	LC50	MOR	200000
Gerris	lacustris	2	LC50	MOR	200000
Polycelis	tenuis	2	LC50	MOR	200000
Indoplanorbis	exustus	2	LC50	MOR	200150
Philodina	acuticornis	2	EC50	IMM	205000
Philodina	acuticornis	2	LC50	MOR	205000
Lymnaea	luteola	0.5	LC50	MOR	206500
Viviparus	bengalensis	1	LC50	MOR	212000
Indoplanorbis	exustus	1	LC50	MOR	215000
Caenis	maxima	2	LC50*	MOR	225000
Asellus	aquaticus	1	LC50	MOR	230000
Polycelis	tenuis	1	LC50	MOR	230000
Chaoborus	crystallinas	2	LC50	MOR	240000
Chironomus	riparius	4	LC50	MOR	240000
Philodina	acuticornis	2	LC50	MOR	245000
Physa	integra	1	LC50	MOR	253000
Viviparus	bengalensis	0.5	LC50	MOR	254000
Hydropsyche	angustipennis	4	LC50	MOR	260000
Philodina	acuticornis	4	EC50	IMM	260000
Physa	gyrina	2	LC50	MOR	260000
Indoplanorbis	exustus	0.5	LC50	MOR	264500
Lymnaea	emarginata	2	LC50	MOR	265000
Sialis	lutaria	2	LC50	MOR	280000
Philodina	acuticornis	2	LC50	MOR	282000
Hirudo	medicinalis	2	LC50	MOR	290000
Philodina	acuticornis	2	LC50	MOR	292000
Philodina	acuticornis	2	LC50	MOR	300000
Sigara	striata	2	LC50*	MOR	300000
Goniobasis	livescens	2	LC50	MOR	320000
Philodina	acuticornis	1	EC50	IMM	325000
Philodina	acuticornis	1	LC50	MOR	325000
Philodina	acuticornis	1	LC50	MOR	331000
Nematoda		2	LC50	MOR	340000
Aeolosoma	headleyi	2	LC50	MOR	341000
Philodina	acuticornis	1	LC50	MOR	347000
Aeolosoma	headleyi	2	LC50	MOR	351000
Nitocris	sp	2	LC50	MOR	351000
Nitocris	sp	2	LC50	MOR	353000
Aeolosoma	headleyi	2	LC50	MOR	356000
Aeolosoma	headleyi	2	LC50	MOR	360000
Nitocris	sp	2	LC50	MOR	360000

Phenol Inverts

Nitocris	sp	1	LC50	MOR	361000
Philodina	acuticornis	1	LC50	MOR	362000
Lymnaea	emarginata	1	LC50	MOR	365000
Nitocris	sp	1	LC50	MOR	370000
Philodina	acuticornis	1	LC50	MOR	371000
Aelosoma	headleyi	2	LC50	MOR	381000
Nitocris	sp	1	LC50	MOR	384000
Nitocris	sp	2	LC50	MOR	389000
Aelosoma	headleyi	1	LC50	MOR	390000
Nitocris	sp	2	LC50	MOR	391000
Aelosoma	headleyi	1	LC50	MOR	400000
Nitocris	sp	1	LC50	MOR	400000
Pentaneura	monilis	2	LC50	MOR	400000
Aelosoma	headleyi	1	LC50	MOR	401000
Nitocris	sp	1	LC50	MOR	401000
Aelosoma	headleyi	1	LC50	MOR	411000
Aelosoma	headleyi	1	LC50	MOR	421000
Haliphus	flavicollis	2	LC50	MOR	440000
Hydrachna	marita	2	LC50	MOR	440000
Hygrobates	longipalpis	2	LC50	MOR	440000
Notonecta	glauca	2	LC50	MOR	450000
Erpobdella	octoculata	2	LC50	MOR	460000
Goniobasis	livescens	1	LC50	MOR	467000
Haemopis	sanguisuga	2	LC50	MOR	480000
Chironomus	riparius	2	LC50	MOR	500000
Ilyocoris	cimicoides	2	LC50	MOR	500000
Lumbriculus	variegatus	2	LC50	MOR	520000
Chironomus	plumosus	2	LC50	MOR	530000
Hygrotus	novemlineatus	2	LC50*	MOR	580000
Brachionus	rubens	1	LC50	MOR	600000
Eylais	hamata	2	LC50	MOR	660000
Limnesia	undulata	2	LC50	MOR	660000
Piona	nodata	2	LC50	MOR	660000
Hydropsyche	angustipennis	2	LC50	MOR	720000
Brachionus	calyciflorus	2	LC50	MOR	780000
Limnodrilus	hoffmeisteri	4	LC50	MOR	780000
Viviparus	bengalensis	3	LC50	MOR	825000
Triogoma		2	LC50	MOR	830000
Psectrocladius	sp	2	LC50	MOR	830000
Psectrocladius	sp	2	LC50*	MOR	830000
Hydrobius	fuscipes	2	LC50	MOR	860000
Limnodrilus	hoffmeisteri	2	LC50	MOR	870000
Limnesia	maculata	2	LC50	MOR	900000
Hydropsyche	angustipennis	1	LC50	MOR	940000
Tubifex	tubifex	2	LC50	MOR	940000
Limnodrilus	hoffmeisteri	1	LC50	MOR	960000
Anodonta	piscinalis	2	LC50	MOR	1000000
Dreissena	polymorpha	2	LC50	MOR	1000000
Gyrinus	marinus	2	LC50	MOR	1000000
Hygrotus	novemlineatus	2	LC50	MOR	1000000
Illybius	augustior	2	LC50	MOR	1000000
Sphaerium	corneum	2	LC50	MOR	1000000
Unio	pictorum	2	LC50	MOR	1000000
Unio	tumidus	2	LC50	MOR	1000000
Chironomus	riparius	1	LC50	MOR	1050000
Glossiphonia	complanata	2	LC50	MOR	1080000
Hydrodroma	despiciens	2	LC50	MOR	1180000
Helobdella	stagnalis	2	LC50	MOR	1280000
Chironomus	plumosus	2	LC50*	MOR	1320000
Argyroneta	aquatica	2	LC50	MOR	1500000
Limnochares	aquatica	2	LC50*	MOR	1500000
Piona	coccinea	2	LC50	MOR	1500000

Phenol Inverts

Limnochares	aquatica	2	LC50	MOR	1560000
Hydryphantes	ruber	2	LC50	MOR	1680000
Cloeon	dipterum	2	LC50*	MOR	1700000
Mideopsis	orbicularis	2	LC50	MOR	1720000
Dytiscus	marginalis	2	LC50	MOR	1800000
Psectrocladius	sp	2	LC50*	MOR	1800000
Arrenurus	globator	2	LC50	MOR	1840000
Caenis	maxima	2	LC50*	MOR	2000000
Eristalis	sp	2	LC50	MOR	2000000
Chironomus	plumosus	2	LC50*	MOR	2150000
Hygrotus	novemlineatus	2	LC50*	MOR	2200000
Limnochares	aquatica	2	LC50*	MOR	2200000
Aplexa	hypnorum	4	LC50	MOR	>51100
Brachionus	calyciflorus	1	LC50	MOR	>150000
Daphnia	pulicaria	2	LC50	MOR	>109000
Daphnia	pulicaria	2	LC50	MOR	>109000
Helisoma	trivolvis	4	LC50	MOR	>100000
Lumbriculus	variegatus	4	LC50	MOR	>100000
Sigara	alternata	1	LC50	MOR	>100000
Tanytarsus	dissimilis	2	LC50	MOR	>51100
Daphnia	magna	2	EC50	IMM	9600*
Daphnia	magna	2	LC50	MOR	9600*
Daphnia	magna	2	LC50	MOR	9600*

PCBs

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Species	Duration	Effect	Type	Concentration (ug/l)	
Invertebrates					
Tanytarsus	dissimilis	21	LC50	MOR	0.45
Tanytarsus	dissimilis	21	LC50	MOR	0.65
Daphnia	magna	14	EC50	REP	1.1
Daphnia	magna	21	EC50	REP	1.3
Daphnia	magna	21	LC50	MOR	1.3
Daphnia	magna	14	LC50	MOR	1.8
Palaemonetes	kadiakensis	7	LC50	MOR	3
Palaemonetes	kadiakensis	7	LC50	MOR	3
Palaemonetes	kadiakensis	7	LC50	MOR	3
Bosmina	longirostris	4	EC50	IMM	10
Diacyclops	thomasi	4	EC50	IMM	10
Daphnia	magna	14	EC50	REP	19
Daphnia	magna	14	EC50	REP	19
Daphnia	magna	14	EC50	REP	23
Daphnia	magna	14	EC50	IMM	24
Daphnia	magna	14	EC50*	IMM	24
Daphnia	magna	14	EC50	REP	25
Daphnia	magna	21	EC50	REP	28
Daphnia	magna	21	LC50	MOR	31
Orconectes	nais	7	LC50	MOR	80
Orconectes	nais	4	LC50	MOR	100
Orconectes	nais	7	LC50	MOR	100
Orconectes	nais	7	LC50	MOR	100
Ischnura	verticalis	4	LC50	MOR	200
Ischnura	verticalis	4	LC50	MOR	200
Ischnura	verticalis	4	LC50	MOR	200
Macromia	sp	7	LC50	MOR	800
Macromia	sp	7	LC50	MOR	1000
Macromia	sp	7	LC50	MOR	1000
Gammarus	fasciatus	4	LC50	MOR	2400
Gammarus	fasciatus	4	LC50	MOR	2400
Gammarus	pseudolimnaeu	4	LC50	MOR	2400
Procambarus	sp	4	LC50	MOR	>550

Species	Duration	Effect	Type	Concentration	
Fish					
Oncorhynchus	mykiss	4	LC50	MOR	0.32
Lepomis	microlophus	4	LC50	MOR	0.53
Rana	pipiens	4	LC50	MOR	1.03
Rana	pipiens	7.00-	LC50	MOR	1.03
Carassius	auratus	4	LC50	MOR	1.18
Ictalurus	punctatus	4	LC50	MOR	1.76
Rana	pipiens	3.00-	LC50	MOR	3.51
Pimephales	promelas	4	LC50	MOR	7.7
Oncorhynchus	mykiss	10	LC50	MOR	8
Oncorhynchus	mykiss	25	LC50	MOR	27
Oncorhynchus	mykiss	20	LC50	MOR	39
Lepomis	macrochirus	25	LC50	MOR	54
Oncorhynchus	mykiss	15	LC50	MOR	64
Ictalurus	punctatus	25	LC50	MOR	113
Lepomis	macrochirus	20	LC50	MOR	135
Ictalurus	punctatus	30	LC50	MOR	139
Oncorhynchus	mykiss	5	LC50	MOR	142
Oncorhynchus	mykiss	5	LC50	MOR	156

PCBs

Oncorhynchus	mykiss	10	LC50	MOR	160
Lepomis	macrochirus	30	LC50	MOR	177
Ictalurus	punctatus	25	LC50	MOR	181
Lepomis	macrochirus	15	LC50	MOR	204
Lepomis	macrochirus	25	LC50	MOR	239
Lepomis	macrochirus	20	LC50	MOR	260
Ictalurus	punctatus	15	LC50	MOR	286
Ictalurus	punctatus	20	LC50	MOR	293
Ictalurus	punctatus	20	LC50	MOR	300
Ictalurus	punctatus	10	LC50	MOR	303
Lepomis	macrochirus	15	LC50	MOR	303
Lepomis	macrochirus	10	LC50	MOR	443
Ictalurus	punctatus	15	LC50	MOR	741
Rasbora	heteromorpha	4	LC50	MOR	1100
Rasbora	heteromorpha	2	LC50	MOR	1450
Lepomis	macrochirus	4	LC50	MOR	2740
Lepomis	macrochirus	4	LC50	MOR	2740
Coregonus	hoyi	5	LC50	MOR	3200
Rasbora	heteromorpha	1	LC50	MOR	6200
Ictalurus	punctatus	4	LC50	MOR	12000
Oncorhynchus	clarki	4	LC50*	MOR	25000
Oncorhynchus	clarki	4	LC50	MOR	42000
Oncorhynchus	clarki	4	LC50	MOR	42500
Oncorhynchus	clarki	4	LC50	MOR	42500
Oncorhynchus	mykiss	5	LC50	MOR	>1.5
Coregonus	hoyi	4	LC50	MOR	>10000
Perca	flavescens	4	LC50	MOR	>150
Ictalurus	punctatus	4	LC50	MOR	>200
Pimephales	promelas	4	LC50	MOR	>33

Species Duration Effect Type Concentration

Amphibians

Bufo	americanus	4	LC50	MOR	2.02
Bufo	americanus	7.00-	LC50	MOR	2.02
Bufo	woodhousei	4	LC50	MOR	3.74
Bufo	woodhousei	7.00-	LC50	MOR	3.74
Bufo	americanus	3.00-	LC50	MOR	10.32
Bufo	woodhousei	3.00-	LC50	MOR	38.18

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Species Duration Effect Type Concentration

Invertebrates

Daphnia	magna	21	EC50	REP	33
Daphnia	magna	21	LC50	MOR	36

Species Duration Effect Type Concentration

Fish

Pimephales	promelas	30	LC50	MOR	3.3
Oncorhynchus	mykiss	20	LC50	MOR	21
Oncorhynchus	mykiss	25	LC50	MOR	49
Oncorhynchus	mykiss	30	LC50	MOR	51
Oncorhynchus	mykiss	20	LC50	MOR	78
Oncorhynchus	mykiss	15	LC50	MOR	94
Ictalurus	punctatus	30	LC50	MOR	137
Oncorhynchus	mykiss	15	LC50	MOR	143
Lepomis	macrochirus	30	LC50	MOR	151

PCBs

Ictalurus	punctatus	25	LC50	MOR	166
Lepomis	macrochirus	25	LC50	MOR	212
Oncorhynchus	mykiss	10	LC50	MOR	240
Lepomis	macrochirus	20	LC50	MOR	245
Ictalurus	punctatus	20	LC50	MOR	296
Oncorhynchus	mykiss	10	LC50	MOR	326
Lepomis	macrochirus	30	LC50	MOR	400
Ictalurus	punctatus	30	LC50	MOR	433
Ictalurus	punctatus	25	LC50	MOR	465
Ictalurus	punctatus	15	LC50	MOR	482
Ictalurus	punctatus	20	LC50	MOR	512
Ictalurus	punctatus	10	LC50	MOR	535
Oncorhynchus	clarki	4	LC50*	MOR	25000
Oncorhynchus	clarki	4	LC50	MOR	60900
Oncorhynchus	clarki	4	LC50	MOR	60900
Oncorhynchus	clarki	4	LC50	MOR	61000
Oncorhynchus	mykiss	5	LC50	MOR	>1.5
Perca	flavescens	4	LC50	MOR	>200
Oncorhynchus	mykiss	4	LC50	MOR	>232
Lepomis	macrochirus	4	LC50	MOR	>400
Ictalurus	punctatus	4	LC50	MOR	>400

Chlorobenzene

Chlorobenzene Species	Duration (days)	Effect	Type	[Conc] (ug/L)
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PLANTS

Selenastrum capricornutum	4	EC50	PGR	202000
Selenastrum capricornutum	4	EC50	CLR	210000
Selenastrum capricornutum	2	EC50	CLR	239000
Selenastrum capricornutum	1	EC50	CLR	298000
Selenastrum capricornutum	4	NOEC	CLR	<100000

INVERTEBRATES

Daphnia magna	14	EC50	REP	2500
Ceriodaphnia dubia	7.00-	NOEC	MOR	3890
Daphnia magna	1	EC50	IMM	4300
Daphnia magna	9.00-	NOEC	REP	6500
Ceriodaphnia dubia	2	LC50	MOR	7900
Ceriodaphnia dubia	2	LC50	MOR	7900
Brachydanio rerio	7	NOEC	REP	8500
Brachydanio rerio	14	NOEC	REP	8500
Brachydanio rerio	21	NOEC	REP	8500
Brachydanio rerio	28	NOEC	REP	8500
Daphnia magna	2	LC50	MOR	8600
Ceriodaphnia dubia	2	LC50	MOR	8900
Brachydanio rerio	28	LC50	MOR	10300
Ceriodaphnia dubia	2	LC50	MOR	10400
Brachydanio rerio	2	LC50	MOR	10500
Daphnia magna	2	LC50	MOR	10700
Ceriodaphnia dubia	2	LC50	MOR	11000
Daphnia magna	9.00-	NOEC	REP	11000
Daphnia magna	9.00-	NOEC	REP	11000
Ceriodaphnia dubia	2	LC50	MOR	11100
Ceriodaphnia dubia	2	LC50	MOR	11400
Daphnia magna	2	LC50	MOR	11500
Ceriodaphnia dubia	2	LC50	MOR	11800
Ceriodaphnia dubia	7.00-	NOEC	REP	12000
Daphnia magna	2	LC50	MOR	12800
Daphnia magna	2	LC50	MOR	12900
Daphnia magna	2	LC50	MOR	13000
Ceriodaphnia dubia	7.00-	EC50	REP	14000
Daphnia magna	9.00-	EC50	REP	15000
Daphnia magna	2	LC50	MOR	15400
Daphnia magna	1	EC50	IMM	16000
Daphnia magna	9.00-	EC50	REP	16000
Daphnia magna	10	LC50	MOR	16000
Daphnia magna	9.00-	EC50	REP	19000
Ceriodaphnia dubia	7.00-	NOEC	REP	19000
Ceriodaphnia dubia	7.00-	NOEC	REP	19000
Daphnia magna	2	LC50	MOR	21300
Ceriodaphnia dubia	7.00-	EC50	REP	22000
Ceriodaphnia dubia	7	LC50	MOR	24000
Ceriodaphnia dubia	7.00-	EC50	REP	26000
Daphnia magna	2	LC50	MOR	31000
Ceriodaphnia dubia	2	LC50	MOR	47000
Daphnia magna	2	LC50	MOR	86000
Daphnia magna	1	LC50	MOR	140000
Cyclotella meneghiniana	2	EC50	CYT	235740
Daphnia magna	1	LC50	MOR	310000
Daphnia magna	9.00-	NOEC	MOR	<1400
Daphnia magna	1	EC50	NR	195 mg/L
Daphnia magna	2	EC50	IMM	5.2 mmol/m3
Daphnia magna	2	EC50	IMM	51.6 mmol/m3

Chlorobenzene

Chlorobenzene Species FISH	Duration (days)	Effect	Type	[Conc] (ug/L)
Micropterus salmoides	6.5	LC50	MOR	50
Micropterus salmoides	7.5	LC50	MOR	50
Micropterus salmoides	6.5	LC50	MOR	60
Micropterus salmoides	7.5	LC50	MOR	60
Micropterus salmoides	3.5	LC50	MOR	340
Micropterus salmoides	3.5	LC50	MOR	390
Micropterus salmoides	2.5	LC50	MOR	660
Micropterus salmoides	2.5	LC50	MOR	710
Carassius auratus	7.5	LC50	MOR	880
Carassius auratus	8	LC50	MOR	880
Carassius auratus	7.5	LC50	MOR	1040
Carassius auratus	8	LC50	MOR	1040
Carassius auratus	4	LC50	MOR	2370
Carassius auratus	4	LC50	MOR	3480
Carassius auratus	3.5	LC50	MOR	4080
Oncorhynchus mykiss	2	LC50	MOR	4100
Carassius auratus	3.5	LC50	MOR	4380
Lepomis macrochirus	1	LC50	MOR	4500
Lepomis macrochirus	2	LC50	MOR	4500
Lepomis macrochirus	3	LC50	MOR	4500
Lepomis macrochirus	4	LC50	MOR	4500
Oncorhynchus mykiss	4	LC50	MOR	4700
Poecilia reticulata	1	LC50	MOR	5630
Lepomis macrochirus	0.17	LC50	MOR	6000
Lepomis macrochirus	0.33	LC50	MOR	6000
Lepomis macrochirus	0.67	LC50	MOR	6000
Lepomis macrochirus	1	LC50	MOR	6000
Lepomis macrochirus	0.083	LC50	MOR	6800
Lepomis macrochirus	3	LC50	MOR	7400
Lepomis macrochirus	4	LC50	MOR	7400
Lepomis macrochirus	2	LC50	MOR	7700
Lepomis macrochirus	1	LC50	MOR	8000
Lepomis macrochirus	0.042	LC50	MOR	12000
Lepomis macrochirus	4	LC50	MOR	16000
Pimephales promelas	4	LC50	MOR	1.69E+04
Lepomis macrochirus	1	LC50	MOR	17000
Pimephales promelas	4	LC50	MOR	22200
Pimephales promelas	4	LC50	MOR	22300
Lepomis macrochirus	1	LC50	MOR	24000
Lepomis macrochirus	2	LC50	MOR	24000
Lepomis macrochirus	4	LC50	MOR	24000
Pimephales promelas	1	LC50	MOR	29120
Pimephales promelas	2	LC50	MOR	29120
Pimephales promelas	4	LC50	MOR	29120
Pimephales promelas	1	LC50	MOR	33930
Pimephales promelas	2	LC50	MOR	33930
Pimephales promelas	4	LC50	MOR	33930
Pimephales promelas	4	LC50	MOR	33930
Pimephales promelas	2	LC50	MOR	34980
Pimephales promelas	4	LC50	MOR	35400
Pimephales promelas	1	LC50	MOR	39190
Poecilia reticulata	1	LC50	MOR	45530
Poecilia reticulata	2	LC50	MOR	45530
Poecilia reticulata	4	LC50	MOR	45530
Carassius auratus	4	LC50	MOR	51620
Carassius auratus	2	LC50	MOR	56000
Carassius auratus	1	LC50	MOR	73030
Oncorhynchus mykiss	16	LC50	MOR	<90
Oncorhynchus mykiss	16	LC50	MOR	<90

Chlorobenzene

Chlorobenzene Species	Duration (days)	Effect	Type	(Conc) (ug/L)
Oncorhynchus mykiss	4	LC50	MOR	7460*

1,4-dichlorobenzene

1,4-Dichlorobenzene Duration |Conc|
 Species (days)| Effect Type (ug/L)

ALGAE

Selenastrum	capricornutum	4	EC50	GRO	1600
Selenastrum	capricornutum	0.13	EC50	PSE	5200
Selenastrum	capricornutum	4	NOEC	CLR	5600
Scenedesmus	subspicatus	2	EC50	BMS	28000
Scenedesmus	subspicatus	2	EC50	GRO	38000
Selenastrum	capricornutum	2	EC50	CLR	61600
Selenastrum	capricornutum	1	EC50	CLR	76900
Selenastrum	capricornutum	3	EC50	CLR	77500
Selenastrum	capricornutum	4	EC50	PGR	96700
Selenastrum	capricornutum	4	EC50	CLR	98100

INVERTEBRATE

Daphnia	magna	21	NOEC	REP	300
Daphnia	magna	14	EC50	REP	930
Chironomus	riparius	2	NOEC	MOR	940
Daphnia	magna	1	EC50	IMM	1600
Daphnia	magna	1	EC50	IMM	1600
Brachydanio	rerio	7	NOEC	REP	2100
Brachydanio	rerio	14	NOEC	REP	2100
Brachydanio	rerio	21	NOEC	REP	2100
Brachydanio	rerio	28	NOEC	REP	2100
Brachydanio	rerio	28	LC50	MOR	2700
Daphnia	magna	1	EC50	IMM	3200
Brachydanio	rerio	1	LC50	MOR	4200
Brachydanio	rerio	2	LC50	MOR	4250
Daphnia	magna	2	LC50	MOR	11000
Chironomus	riparius	2	LC50	MOR	12000
Tanytarsus	dissimilis	2	LC50	MOR	13000
Tanytarsus	dissimilis	1	LC50	MOR	22100
Daphnia	magna	1	LC50	MOR	42000
Daphnia	magna	2	EC50	NR	0.7 mg/L
Daphnia	magna	1	EC50	NR	3.2 mg/L

FISH

Jordanella	floridae	10	LOEC	MOR	263
Pimephales	promelas	32	NOEC	MOR	570
Oncorhynchus	mykiss	14	LC50	MOR	800
Pimephales	promelas	32	LOEC	MOR	1000
Oncorhynchus	mykiss	4	EC50	EQU	1100
Oncorhynchus	mykiss	4	LC50	MOR	1120
Oncorhynchus	mykiss	4	LC50	MOR	1120
Oncorhynchus	mykiss	2	LC50	MOR	1180
Oncorhynchus	mykiss	1	LC50	MOR	1200
Oncorhynchus	mykiss	2	LC50	MOR	1240
Oncorhynchus	mykiss	3	LC50	MOR	1240
Oncorhynchus	mykiss	1	LC50	MOR	1370
Jordanella	floridae	3	LC50	MOR	2053
Jordanella	floridae	4	LC50	MOR	2053
Jordanella	floridae	2	LC50	MOR	2110
Pimephales	promelas	4	LC50	MOR	2400
Jordanella	floridae	0.5	LC50	MOR	3069
Jordanella	floridae	1	LC50	MOR	3069
Jordanella	floridae	1.5	LC50	MOR	3069
Pimephales	promelas	4	LC50	MOR	3600
Pimephales	promelas	4	LC50	MOR	4000
Pimephales	promelas	4	LC50	MOR	4200
Lepomis	macrochirus	4	LC50	MOR	4300
Jordanella	floridae	4	LC50	MOR	4480

1,4-dichlorobenzene

1,4-Dichlorobenzene		Duration	Effect	Type	Conc
Species	Species	(days)			(ug/L)
Lepomis	macrochirus	1	LC50	MOR	4500
Pimephales	promelas	4	LC50	MOR	11700
Pimephales	promelas	4	LC50	MOR	14200
Pimephales	promelas	4	LC50	MOR	30000
Pimephales	promelas	4	LC50	MOR	33700
Pimephales	promelas	1	LC50	MOR	34000
Pimephales	promelas	2	LC50	MOR	34000
Pimephales	promelas	4	LC50	MOR	34500
Pimephales	promelas	1	LC50	MOR	35400
Pimephales	promelas	2	LC50	MOR	35400
Jordanella	floridae	28	LOEC	GRO	>349
Jordanella	floridae	28	LOEC	MOR	>349
Pimephales	promelas	4	LC50	MOR	19.4 umol/L
Poecilia	reticulata	4	LC50	MOR	19.7 umol/L

2,4-Dimethylphenol

2,4-Dimethylphenol Species	Duration (days)	Effect	Type	(Conc) (ug/L)
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PLANT

Lemna minor	3	LC50*	MOR	290000*
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INVERTEBRATE

Brachionus calyciflorus	2	NOEC	REP	2000
Daphnia magna	2	LC50	MOR	2100
Daphnia magna	2	EC50	IMM	2370
Brachionus calyciflorus	2	LOEC	REP	4000
Daphnia magna	1	LC50	MOR	8300
Brachionus calyciflorus	2	EC50	REP	8600
Brachionus calyciflorus	2	LC50	MOR	208000
Daphnia magna	1	EC50*	IMM	0.096 mmol/L

FISH

Lepomis macrochirus	4	LC50	MOR	7800
Pimephales promelas	8	LC50	MOR	13000
Pimephales promelas	8	LC50	MOR	14000
Pimephales promelas	4	LC50	MOR	16600
Pimephales promelas	4	LC50	MOR	17000
Pimephales promelas	4	LC50	MOR	17000
Lepomis macrochirus	1	LC50	MOR	18000

Low MW PAH

PAH / Species	Duration (days)	Effect	Type	Conc (ug/L)
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Acenaphthene

PLANT

Selenastrum capricornutum	2	EC50	CLR	322
Selenastrum capricornutum	4	EC50	PGR	520
Selenastrum capricornutum	4	EC50	CLR	530
Selenastrum capricornutum	1	EC50	CLR	>500000

INVERTEBRATE

Paratanytarsus sp	2	LC50	MOR	60
Paratanytarsus sp	2	LC50	MOR	70
Paratanytarsus sp	2	LC50	MOR	140
Paratanytarsus sp	2	LC50	MOR	470
Daphnia magna	2	EC50	IMM	1275
Paratanytarsus sp	2	LC50	MOR	1620
Paratanytarsus sp	2	LC50	MOR	1650
Paratanytarsus sp	2	LC50	MOR	2000
Paratanytarsus sp	2	LC50	MOR	2090
Daphnia magna	2	EC50	IMM	3450
Daphnia magna	2	LC50	MOR	41000
Daphnia magna	1	LC50	MOR	>280000

FISH

Salmo trutta	4	LC50	MOR	580
Salmo trutta	3	LC50	MOR	600
Pimephales promelas	4	LC50	MOR	608
Salmo trutta	2	LC50	MOR	650
Oncorhynchus mykiss	4	LC50	MOR	670
Oncorhynchus mykiss	3	LC50	MOR	800
Salmo trutta	1	LC50	MOR	840
Oncorhynchus mykiss	2	LC50	MOR	1130
Oncorhynchus mykiss	1	LC50	MOR	1570
Pimephales promelas	4	LC50	MOR	1600
Lepomis macrochirus	4	LC50	MOR	1700
Pimephales promelas	3	LC50	MOR	1700
Ictalurus punctatus	4	LC50	MOR	1720
Pimephales promelas	4	LC50	MOR	1730
Lepomis macrochirus	1	LC50	MOR	7200

Anthracene

PLANT

Selenastrum capricornutum	1	EC50	PSE	3.3
Selenastrum capricornutum	0.92	EC50	GRO	3.9
Selenastrum capricornutum	1	EC50	PSE	4.9
Selenastrum capricornutum	0.92	EC50	GRO	5.3
Selenastrum capricornutum	1	EC50	PSE	5.9
Selenastrum capricornutum	0.92	EC50	GRO	6.6
Selenastrum capricornutum	1	EC50	PSE	6.9
Selenastrum capricornutum	1	EC50	PSE	8.1
Selenastrum capricornutum	1	EC50	PSE	9.9
Selenastrum capricornutum	1	EC50	PSE	11.2
Selenastrum capricornutum	0.92	EC50	GRO	12.1
Selenastrum capricornutum	1	EC50	PSE	24
Selenastrum capricornutum	0.92	EC50	GRO	37.4

INVERTEBRATE

Artemia salina	0.042	LC50	MOR	20
Daphnia magna	0.042	LC50	MOR	20
Culex quinquefasciat	1	LC50	MOR	37
Daphnia magna	2	EC50	IMM	95

Low MW PAH

PAH / Species		Duration (days)	Effect	Type	Conc (ug/L)
Aedes	aegypti	0.042	LC50	MOR	150
Daphnia	magna	1	EC50	IMM	211
Aedes	taeniorhynchus	1	LC50	MOR	260
Daphnia	pulex	2	EC50	IMM	754
Aedes	aegypti	1	LC50	MOR	<1
Daphnia	magna	2	EC50	IMM	0.2 mmol/m3
Daphnia	magna	2	EC50	IMM	0.2 mmol/m3
Daphnia	magna	2	EC50	IMM	17 mmol/m3

FISH

Lepomis	macrochirus	4	LC50	MOR	1.27
Lepomis	macrochirus	4	LC50	MOR	2.78
Lepomis	macrochirus	2	LC50	MOR	3.36
Lepomis	macrochirus	4	LC50	MOR	3.74
Lepomis	macrochirus	4	LC50	MOR	4.5
Lepomis	macrochirus	2	LC50	MOR	5.1
Lepomis	macrochirus	4	LC50	MOR	6.78
Lepomis	macrochirus	4	LC50	MOR	7.47
Lepomis	macrochirus	4	LC50	MOR	7.97
Lepomis	macrochirus	4	LC50	MOR	8.27
Lepomis	macrochirus	2	LC50	MOR	9.69
Lepomis	macrochirus	2	LC50	MOR	10.05
Lepomis	macrochirus	2	LC50	MOR	11.56
Lepomis	sp	4	LC50	MOR	11.92
Lepomis	macrochirus	2	LC50	MOR	12.02
Lepomis	sp	4	LC50	MOR	18.23
Lepomis	sp	4	LC50	MOR	26.47
Lepomis	macrochirus	4	LC50	MOR	46
Pimephales	promelas	0.021	LC50	~MOR	360

Carbazole

Tetrahymena	pyriformis	3	EC50	GRO	0.123 mmol/L
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Dibenzofuran

INVERTEBRATE

Daphnia	magna	2	LC50	MOR	1340
Daphnia	magna	2	LC50	MOR	1700
Daphnia	magna	1	LC50	MOR	7500
Daphnia	magna	2	LC50	MOR	12000

FISH

Pimephales	promelas	4	LC50	MOR	1780
Poecilia	reticulata	4	LC50	MOR	1800
Pimephales	promelas	4	LC50	MOR	1850
Poecilia	reticulata	4	LC50	MOR	18000

Dibenzothiophene

INVERTEBRATE

Daphnia	magna	2	LC50	MOR	420
Daphnia	magna	2	LC50	MOR	466

FISH

Poecilia	reticulata	4	LC50	MOR	700
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9H-Fluorene

PLANT

Selenastrum	capricornutum	4	EC50	PSE	3400
Chara	sp	4	EC50	PSE	20300
Chara	sp	4	EC50	PSE	35000

Low MW PAH

PAH / Species Duration Effect Type Conc
(days)|

INVERTEBRATE

Daphnia	pulex	2	EC50	IMM	212
Daphnia	magna	2	EC50	IMM	430
Gammarus	pseudolimnaeu	4	LC50	MOR	600
Chironomus	riparius	2	EC50	IMM	2350
Hexagenia	bilineata	5	LC50	MOR	5800

FISH

Oncorhynchus	mykiss	4	LC50	MOR	820
Lepomis	macrochirus	4	LC50	MOR	910
Pimephales	promelas	4	LC50	MOR	>100000

2-Methylantracene

Daphnia	pulex	2	EC50	IMM	96
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9-Methylantracene

INVERTEBRATE

Aedes	aegypti	1	LC50	MOR	6.4
Culex	quinquefasciat	1	LC50	MOR	37
Aedes	taeniorhynchus	1	LC50	MOR	270
Daphnia	magna	2	EC50	IMM	0.65 mmol/m3
Daphnia	magna	2	EC50	IMM	0.65 mmol/m3
Daphnia	magna	2	EC50	IMM	2.3 mmol/m3

2-Methylnaphthalene

INVERTEBRATE

Daphnia	magna	2	EC50	IMM	10.5 mmol/m3
Daphnia	magna	2	EC50	IMM	10.5 mmol/m3
Daphnia	magna	2	EC50	IMM	13 mmol/m3

Naphthalene

PLANT

Nitzschia	palea	0.17	EC50	PSE	2820
Selenastrum	capricornutum	0.17	EC50	PSE	2960
Chlorella	vulgaris	1	EC50	GRO	33000
Diaptomus	forbesi	4	LC50	MOR	67800

INVERTEBRATE

Daphnia	pulex	2	EC50	IMM	0.575
Daphnia	magna	0.083	EC50	PTR	690
Daphnia	pulex	4	LC50	MOR	1000
Daphnia	magna	2	LC50	MOR	2160
Daphnia	magna	2	EC50	IMM	2194
Daphnia	magna	1	EC50	IMM	2305
Chironomus	tentans	2	LC50	MOR	2810
Daphnia	pulex	2	LC50	MOR	2920
Daphnia	magna	2	LC50	MOR	3400
Gammarus	minus	2	LC50	MOR	3930
Daphnia	magna	2	LC50	MOR	4100
Daphnia	pulex	2	EC50	IMM	4663
Physa	gyrina	2	LC50	MOR	5020
Daphnia	magna	1	LC50	MOR	6600
Daphnia	magna	2	LC50	MOR	8600
Tanytarsus	dissimilis	2	LC50	MOR	12200
Tanytarsus	dissimilis	2	LC50	MOR	12600
Chironomus	attenuatus	1	LC50	MOR	13000
Chironomus	attenuatus	1	LC50	MOR	13100
Daphnia	magna	1	LC50	MOR	13200
Chironomus	attenuatus	1	LC50	MOR	13300

Low MW PAH

PAH / Species		Duration (days)	Effect	Type	Conc (ug/L)
Tanytarsus	dissimilis	2	LC50	MOR	13700
Chironomus	attenuatus	1	LC50	MOR	13900
Daphnia	magna	1	LC50	MOR	17000
Tanytarsus	dissimilis	2	LC50	MOR	20700
Daphnia	magna	2	LC50	MOR	22600
Daphnia	magna	2	EC50	IMM	130 mmol/m3
Daphnia	magna	2	EC50	IMM	36.9 mmol/m3
Daphnia	magna	2	EC50	IMM	36.9 mmol/m3

FISH

Oncorhynchus	mykiss	27	LC50	MOR	110
Oncorhynchus	mykiss	23	LC50	MOR	120
Oncorhynchus	mykiss	27	LC50	MOR	120
Micropterus	salmoides	7	LC50	MOR	510
Micropterus	salmoides	7	LC50	MOR	680
Oncorhynchus	mykiss	4	LC50	MOR	1600
Oncorhynchus	mykiss	4	LC50	MOR	1800
Pimephales	promelas	4	LC50	MOR	1990
Oncorhynchus	kisutch	4	LC50	MOR	2100
Oncorhynchus	mykiss	4	LC50	MOR	2600
Oncorhynchus	kisutch	4	LC50	MOR	3220
Oncorhynchus	mykiss	4	LC50	MOR	4400
Oncorhynchus	mykiss	4	LC50	MOR	4500
Oncorhynchus	mykiss	4	LC50	MOR	5500
Pimephales	promelas	3	LC50	MOR	6080
Pimephales	promelas	4	LC50	MOR	6080
Oncorhynchus	mykiss	4	LC50	MOR	6100
Pimephales	promelas	4	LC50	MOR	6140
Pimephales	promelas	2	LC50	MOR	6350
Pimephales	promelas	1	LC50	MOR	7760
Pimephales	promelas	4	LC50	MOR	7900
Gambusia	affinis	4	LC50*	MOR	150000
Gambusia	affinis	2	LC50*	MOR	165000
Gambusia	affinis	1	LC50*	MOR	220000
Micropterus	salmoides	3	LC50	MOR	>240

Phenanthrene

PLANT

Nitzschia	palea	0.17	EC50	PSE	870
Selenastrum	capricornutum	0.17	EC50	PSE	940

INVERTEBRATE

Daphnia	pulex	16	LOEC	GRO	60
Daphnia	pulex	16	LOEC	REP	60
Daphnia	pulex	4	LC50	MOR	100
Daphnia	pulex	2	EC50	IMM	350
Daphnia	magna	2	EC50	IMM	383
Daphnia	magna	0.083	EC50	PTR	390
Gammarus	minus	2	LC50	MOR	460
Chironomus	tentans	2	LC50	MOR	490
Daphnia	magna	2	LC50	MOR	700
Daphnia	pulex	2	EC50	IMM	734
Daphnia	magna	2	LC50	MOR	843
Daphnia	magna	1	EC50	IMM	861
Daphnia	pulex	2	LC50	MOR	960
Daphnia	magna	2	EC50	IMM	1.16 mmol/m3
Daphnia	magna	2	EC50	IMM	1.16 mmol/m3
Daphnia	magna	2	EC50	IMM	6.5 mmol/m3

FISH

Low MW PAH

PAH / Species		Duration (days)	Effect	Type	Conc (ug/L)
Oncorhynchus	mykiss	27	LC50	MOR	30
Oncorhynchus	mykiss	23	LC50	MOR	40
Oncorhynchus	mykiss	27	LC50	MOR	40
Micropterus	salmoides	7	LC50	MOR	180
Micropterus	salmoides	7	LC50	MOR	250
Oncorhynchus	mykiss	4	LC50	MOR	3200
Micropterus	salmoides	3	LC50	MOR	>70

PAH / Species Duration Effect Type Conc
(days)|

Anthraquinone

FISH		Duration	Effect	Type	Conc
		(days)			(ug/L)
Tilapia	mossambica	2	LC50	MOR	10500
Tilapia	mossambica	2	LC50	MOR	11800
Tilapia	mossambica	2	LC50	MOR	13500
Tilapia	mossambica	2	LC50	MOR	16700
Tilapia	mossambica	2	LC50	MOR	25900

Fluoranthene

PLANT		Duration	Effect	Type	Conc
		(days)			(ug/L)
Selenastrum	capricornutum	3	EC50	CLR	4140
Selenastrum	capricornutum	4	NOEC	CLR	32000
Selenastrum	capricornutum	2	EC50	CLR	32200
Selenastrum	capricornutum	1	EC50	CLR	37700
Selenastrum	capricornutum	4	EC50	PGR	54400
Selenastrum	capricornutum	4	EC50	CLR	54600

INVERTEBRATE

Daphnia	magna	0.042	LC50	MOR	4
Aedes	aegypti	1	LC50	MOR	10
Aedes	aegypti	0.042	LC50	MOR	12
Ceriodaphnia	dubia	7	EC50*	REP	28.5
Chironomus	tentans	10	EC50	IMM	31.9
Artemia	salina	0.042	LC50	MOR	40
Hyaella	azteca	10	EC50	IMM	44.9
Ceriodaphnia	dubia	2	LC50	MOR	45
Culex	quinquefasciatus	1	LC50	MOR	45
Aedes	taeniorhynchus	1	LC50	MOR	48
Daphnia	magna	10	EC50	IMM	102.6
Daphnia	magna	2	LC50	MOR	320000
Daphnia	magna	1	LC50	MOR	1300000

FISH

Pimephales	promelas	30	LC50	MOR	7.1
Ictalurus	punctatus	4	LC50	MOR	36
Pimephales	promelas	0.021	LC50	~MOR	200
Lepomis	macrochirus	4	LC50	MOR	4000
Lepomis	macrochirus	1	LC50	MOR	>32000

Pyrene

INVERTEBRATE		Duration	Effect	Type	Conc
		(days)			(ug/L)
Daphnia	magna	0.042	LC50	MOR	4
Artemia	salina	0.042	LC50	MOR	8
Aedes	aegypti	0.042	LC50	MOR	20
Aedes	aegypti	1	LC50	MOR	35
Culex	quinquefasciatus	1	LC50	MOR	37
Aedes	taeniorhynchus	1	LC50	MOR	60
Daphnia	magna	2	EC50	IMM	0.45 mmol/m3
Daphnia	magna	2	EC50	IMM	0.45 mmol/m3
Daphnia	magna	2	EC50	IMM	9 mmol/m3

FISH

Pimephales	promelas	0.021	LC50	~MOR	220
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High MW PAH

PAH / Species	Duration (days)	Effect	Type	Conc (ug/L)
Benzo(a)anthracene				
INVERTEBRATE				
Daphnia pulex	4	LC50	MOR	10
Benzo(a)pyrene				
PLANT				
Scenedesmus acutus	3	EC50	GRO	5
Selenastrum capricornutum	3	EC50	GRO	15
Anabaena flosaquae	3	EC50	GRO	>4000
Chlamydomonas reinhardtii	3	EC50	GRO	>4000
Euglena gracilis	3	EC50	GRO	>4000
Poteriochromonas malhamensis	3	EC50	GRO	>4000
INVERTEBRATE				
Daphnia pulex	4	LC50	MOR	5

Toluene

Methylbenzene Species	Duration (days)	Effect	Type	Conc (ug/L)
PLANT				
Selenastrum capricornutum	8	EC50	GRO	9400
Selenastrum capricornutum	3	EC50	GRO	12500
Scenedesmus subspicatus	2	EC50	GRO	125000
Scenedesmus subspicatus	2	EC50	BMS	160000
Chlorella vulgaris	1	EC50	GRO	245000

INVERTEBRATE				
Daphnia magna	21	NOEC	REP	1000
Daphnia magna	0.042	EC50	ENZ	3600
Chironomus riparius	2	NOEC	MOR	5600
Daphnia magna	2	EC50	IMM	6000
Daphnia magna	1	EC50	IMM	7000
Daphnia magna	1	EC50	IMM	8000
Daphnia magna	2	EC50	IMM	19600
Aedes aegypti	1	EC50	IMM	21520
Brachydanio rerio	2	LC50	MOR	25000
Chironomus riparius	2	LC50	MOR	47000
Daphnia magna	1	EC50	IMM	84000
Daphnia magna	1	EC50	NR	84000
Brachionus calyciflorus	1	LC50	MOR	113000
Brachionus calyciflorus	1	LC50	MOR	113300
Daphnia magna	1	EC50	NR	270000
Daphnia magna	1	LC50	MOR	310000
Daphnia magna	2	LC50	MOR	310000
Diaptomus forbesi	4	LC50	MOR	447000
Daphnia magna	1	LC50	MOR	470000
Daphnia magna	2	EC50	IMM	125 mmol/m3

FISH				
Pimephales promelas	7	EC50*	GRO	110.3
Pimephales promelas	7	NOEC	GRO	5440
Pimephales promelas	7	NOEC	MOR	5440
Oncorhynchus kisutch	4	LC50	MOR	5500
Oncorhynchus mykiss	4	LC50	MOR	5800
Pimephales promelas	32	LOEC	GRO	6000
Pimephales promelas	7	LOEC	GRO	8040
Pimephales promelas	7	LOEC	MOR	8040
Oncorhynchus kisutch	4	LC50	MOR	8110
Pimephales promelas	7	LC50	MOR	9390
Pimephales promelas	4	LC50	MOR	12600
Lepomis macrochirus	4	LC50	MOR	13000
Pimephales promelas	1	LC50	MOR	16000
Lepomis macrochirus	1	LC50	MOR	17000
Pimephales promelas	4	LC50	MOR	17030
Pimephales promelas	4	LC50	MOR	18000
Pimephales promelas	4	LC50	MOR	18000
Carassius auratus	4	LC50	MOR	22800
Lepomis macrochirus	1	LC50	MOR	24000
Lepomis macrochirus	2	LC50	MOR	24000
Lepomis macrochirus	4	LC50	MOR	24000
Oncorhynchus mykiss	4	LC50	MOR	24000
Pimephales promelas	4	LC50	MOR	25000
Pimephales promelas	4	LC50	MOR	25000
Carassius auratus	3	LC50	MOR	25330
Pimephales promelas	4	LC50	MOR	26000
Clarias lazera	4	LC50*	MOR	26200
Pimephales promelas	4	LC50	MOR	27000
Carassius auratus	2	LC50	MOR	27620

Toluene

Methylbenzene		Duration	Effect	Type	Conc
Species		(days)			(ug/L)
Pimephales	promelas	4	LC50	MOR	28000
Poecilia	reticulata	4	LC50	MOR	28200
Clarias	lazera	3	LC50*	MOR	29500
Pimephales	promelas	4	LC50	MOR	30000
Pimephales	promelas	4	LC50	MOR	31000
Clarias	lazera	2	LC50*	MOR	31400
Pimephales	promelas	4	LC50	MOR	3.17E+04
Pimephales	promelas	4	LC50	MOR	34270
Pimephales	promelas	4	LC50	MOR	36000
Pimephales	promelas	4	LC50	MOR	36200
Pimephales	promelas	4	LC50	MOR	36200
Clarias	lazera	1	LC50*	MOR	36600
Carassius	auratus	1	LC50	MOR	41590
Pimephales	promelas	4	LC50	MOR	42330
Pimephales	promelas	1	LC50	MOR	46310
Pimephales	promelas	2	LC50	MOR	46310
Oryzias	latipes	4	LC50*	MOR	54000
Pimephales	promelas	4	LC50	MOR	54000
Pimephales	promelas	4	LC50	MOR	55000
Pimephales	promelas	4	LC50	MOR	55000
Pimephales	promelas	1	LC50	MOR	56000
Pimephales	promelas	2	LC50	MOR	56000
Pimephales	promelas	4	LC50	MOR	56400
Carassius	auratus	1	LC50	MOR	57680
Carassius	auratus	2	LC50	MOR	57680
Carassius	auratus	4	LC50	MOR	57680
Carassius	auratus	1	LC50	MOR	58000
Pimephales	promelas	4	LC50	MOR	59000
Poecilia	reticulata	4	LC50	MOR	59300
Poecilia	reticulata	2	LC50	MOR	60950
Poecilia	reticulata	1	LC50	MOR	62810
Oryzias	latipes	2	LC50*	MOR	63000
Pimephales	promelas	4	LC50	MOR	66000
Pimephales	promelas	4	LC50	MOR	72000
Pimephales	promelas	4	LC50	MOR	77400
Oryzias	latipes	1	LC50*	MOR	80000
Carassius	auratus	1	LC50	MOR	130000
Lepomis	macrochirus	4	LC50	MOR	170000
Ictalurus	punctatus	4	LC50	MOR	240000
Gambusia	affinis	4	LC50*	MOR	1180000
Gambusia	affinis	2	LC50*	MOR	1260000
Gambusia	affinis	1	LC50*	MOR	1340000

Methylene chloride

Methylene chloride Species	Duration (days)	Effect	Type	Conc (ug/L)
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PLANT

Selenastrum capricornutum	4	NOEC	CLR	56000
Lemna minor	<=21.0	EC50	GRO	2000000
Selenastrum capricornutum	1	EC50	CLR	>500000
Selenastrum capricornutum	2	EC50	CLR	>500000
Selenastrum capricornutum	3	EC50	CLR	>500000
Selenastrum capricornutum	4	EC50	CLR	>500000
Selenastrum capricornutum	4	EC50	PGR	>500000

AMPHIBIANS

Rana catesbeiana	8	EC50	TER	17780
Rana catesbeiana	4	EC50	TER	30610
Bufo woodhousei	3	EC50	TER	>32000
Bufo woodhousei	7	EC50	TER	>32000
Rana palustris	0.33	EC50	TER	>32000
Rana palustris	4	EC50	TER	>32000

INVERTEBRATE

Daphnia magna	2	LC50	MOR	220000
Daphnia magna	1	LC50	MOR	310000
Daphnia magna	2	EC50	IMM	1682000
Daphnia magna	1	EC50	IMM	1959000
Daphnia magna	1	EC50	NR	2100000
Daphnia magna	1	LC50	MOR	2270000
Daphnia magna	2	EC50	IMM	1599 mmol/m3

FISH

Pimephales promelas	2	EC50	IMM	99000
Pimephales promelas	3	EC50	IMM	99000
Pimephales promelas	4	EC50	IMM	99000
Pimephales promelas	1	EC50	IMM	112800
Pimephales promelas	4	LC50	MOR	193000
Lepomis macrochirus	4	LC50	MOR	220000
Lepomis macrochirus	1	LC50	MOR	230000
Pimephales promelas	3	LC50	MOR	232400
Pimephales promelas	2	LC50	MOR	265000
Pimephales promelas	1	LC50	MOR	268000
Pimephales promelas	4	LC50	MOR	310000
Pimephales promelas	4	LC50	MOR	330000
Carassius auratus	1	LC50	MOR	420000
Pimephales promelas	8	LC50	MOR	471000
Pimephales promelas	4	LC50	MOR	502000
Oryzias latipes	1	LC50	MOR	840000
Oryzias latipes	2	LC50	MOR	840000
Oryzias latipes	1	LC50	MOR	1100000
Oryzias latipes	1	LC50	MOR	1100000
Oryzias latipes	2	LC50	MOR	1100000
Oryzias latipes	2	LC50	MOR	1100000

acetone

Acetone Species Duration Effect Type Conc.
(ug/L)

PLANTS

Nitzschia	linearis	5	LC50*	MOR	11493
Anabaena	cylindrica	10.0-	EC50	GRO	360000
Anabaena	sp	10.0-	EC50	GRO	560000
Anabaena	inaequalis	10.0-	EC50	GRO	2750000
Anabaena	variabilis	10.0-	EC50	GRO	3690000
Nostoc	sp	10.0-	EC50	GRO	4380000

INVERTEBRATES

Daphnia	magna	1	LC50*	MOR	10000
Daphnia	magna	2	LC50*	MOR	10000
Anodonta	imbecillis	2	LC50	MOR	33830
Brachionus	calyciflorus	1	LC50	MOR	51000
Daphnia	pulex	0.75	LC50	MOR	1220000
Ceriodaphnia	dubia	7.00-	NOEC	MOR	1866000
Palaemonetes	kadiakensis	0.75	LC50	MOR	2610000
Daphnia	magna	9.00-	NOEC	REP	3110000
Daphnia	magna	9.00-	NOEC	REP	3110000
Daphnia	magna	10	LC50	MOR	4068000
Corixa	punctata	2	LC50	MOR	5000000
Ceriodaphnia	dubia	7.00-	NOEC	REP	5184000
Ceriodaphnia	dubia	7.00-	NOEC	REP	5184000
Ceriodaphnia	dubia	7.00-	NOEC	REP	5184000
Daphnia	magna	9.00-	NOEC	REP	5184000
Ceriodaphnia	dubia	7.00-	EC50	REP	5908000
Gammarus	pulex	2	LC50	MOR	6000000
Daphnia	magna	9.00-	EC50	REP	6389000
Ischnura	elegans	2	LC50	MOR	6400000
Daphnia	magna	9.00-	EC50	REP	6406000
Ceriodaphnia	dubia	7.00-	EC50	REP	6469000
Ceriodaphnia	dubia	10	LC50	MOR	6693000
Daphnia	magna	9.00-	EC50	REP	6714000
Ceriodaphnia	dubia	7.00-	EC50	REP	6928000
Erpobdella	octoculata	2	LC50	MOR	7000000
Lymnaea	stagnalis	2	LC50	MOR	7000000
Lymnaea	stagnalis	2	LC50	MOR	7000000
Daphnia	cucullata	2	LC50	MOR	7460000
Dugesia	lugubris	2	LC50	MOR	7500000
Asellus	aquaticus	2	LC50	MOR	7550000
Cloeon	dipterum	2	LC50	MOR	7600000
Daphnia	cucullata	2	LC50	MOR	7810000
Ceriodaphnia	dubia	2	LC50	MOR	8098000
Daphnia	pulex	2	LC50	MOR	8800000
Daphnia	magna	2	LC50	MOR	9218000
Nemoura	cinerea	2	LC50	MOR	10300000
Daphnia	pulex	0.13	LC50*	MOR	12000000
Daphnia	magna	2	LC50	MOR	12100000
Daphnia	magna	2	LC50	MOR	12600000
Chironomus	thummi	2	LC50	MOR	13000000
Daphnia	magna	2	LC50	MOR	13300000
Daphnia	magna	2	EC50	IMM	13500000
Hydra	oligactis	2	LC50	MOR	13500000
Hydra	oligactis	2	LC50	MOR	13500000
Aedes	aegypti	2	LC50	MOR	15000000
Moina	macrocopa	0.13	LC50*	MOR	15000000
Tubificidae		2	LC50	MOR	15000000
Culex	pipiens	2	LC50	MOR	17000000
Ambystoma	mexicanum	2	LC50	MOR	20000000
Daphnia	magna	2	LC50	MOR	23500000

acetone

Indoplanorbis	exustus	2	LC50	MOR	35000000
Physa	acuta	2	LC50	MOR	35000000
Semisulcospira	libertina	2	LC50	MOR	35000000
Chironomus	tentans	2	LC50	MOR	46900000
Cipangopaludina	malleata	2	LC50	MOR	48000000
Daphnia	magna	9.00-	NOEC	MOR	<403000
Asellus	intermedius	4	LC50	MOR	>100000
Corbicula	manilensis	4	LC50	MOR	>20000000
Daphnia	magna	1	LC50	MOR	>10000000
Daphnia	magna	4	LC50	MOR	>100000
Dugesia	tigrina	4	LC50	MOR	>100000
Gammarus	fasciatus	4	LC50	MOR	>100000
Helisoma	trivolvis	4	LC50	MOR	>100000
Lumbriculus	variegatus	4	LC50	MOR	>100000
Paramecium	caudatum	0.17	LC50	MOR	0.09 M
Daphnia	magna	2	LC50	MOR	39000 uL/L
Daphnia	magna	1	LC50	MOR	44000 uL/L
Culex	restuans	0.75	LC50	MOR	6190000*

FISH

Rasbora	heteromorpha	2	LC50*	MOR	4000000
Oncorhynchus	mykiss	4	LC50	MOR	5540000
Rasbora	heteromorpha	1	LC50*	MOR	5700000
Salvelinus	fontinalis	4.33	LC50	MOR	6071000
Salvelinus	fontinalis	7	LC50	MOR	6071000
Oncorhynchus	mykiss	1	LC50	MOR	6100000
Pimephales	promelas	4	LC50	MOR	6210000
Salvelinus	fontinalis	1.25	LC50	MOR	6246000
Lepomis	macrochirus	4.79	LC50	MOR	7052000
Lepomis	macrochirus	7	LC50	MOR	7052000
Pimephales	promelas	7	LC50	MOR	7148000
Pimephales	promelas	4	LC50	MOR	7280000
Lepomis	macrochirus	3.79	LC50	MOR	7395000
Oncorhynchus	mykiss	2	LC50	MOR	7400000
Pimephales	promelas	0.71	LC50	MOR	7450000
Pimephales	promelas	7	LC50	MOR	7450000
Lepomis	macrochirus	2.79	LC50	MOR	7542000
Pimephales	promelas	0.083	LC50	MOR	8000000
Pimephales	promelas	6	LC50	MOR	8011000
Pimephales	promelas	4	LC50	MOR	8120000
Lepomis	macrochirus	1.71	LC50	MOR	8124000
Lepomis	macrochirus	0.79	LC50	MOR	8290000
Lepomis	macrochirus	4	LC50	MOR	8300000
Oryzias	latipes	1	LC50	MOR	8300000
Oryzias	latipes	2	LC50	MOR	8300000
Pimephales	promelas	0.021	LC50	MOR	8550000
Pimephales	promelas	2	LC50	MOR	9000000
Pimephales	promelas	4	LC50	MOR	9100000
Pimephales	promelas	0.25	LC50	MOR	9500000
Pimephales	promelas	1	LC50	MOR	9500000
Poecilia	reticulata	1	LC50	MOR	9500000
Pimephales	promelas	0.17	LC50	MOR	10400000
Pimephales	promelas	4	LC50	MOR	10700000
Carassius	auratus	2	LC50*	MOR	11000000
Gambusia	affinis	2	LC50*	MOR	13000000
Gambusia	affinis	4	LC50*	MOR	13000000
Gambusia	affinis	1	LC50*	MOR	13500000
Oryzias	latipes	2	LC50	MOR	14300000
Cyprinus	carpio	2	LC50*	MOR	15000000
Oryzias	latipes	2	LC50*	MOR	15000000
Pimephales	promelas	2	LC50	MOR	15000000
Oryzias	latipes	1	LC50	MOR	>10000000

acetone

Oryzias	latipes	1	LC50	MOR	>10000000
Oryzias	latipes	2	LC50	MOR	>10000000
Oryzias	latipes	2	LC50	MOR	>10000000
Pimephales	promelas	4	LC50	MOR	>100000

AMPHIBIANS

Xenopus	laevis	2	LC50	MOR	24000000
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Nonylphenol

Nonylphenol

Species	Duration	Effect	Type	Conc. (ug/L)
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INVERTEBRATES

Daphnia magna	21	LC50	MOR	100
Daphnia magna	7	LC50	MOR	120
Daphnia magna	14	LC50	MOR	120
Daphnia magna	2	EC50	IMM	190
Daphnia magna	1	EC50	IMM	300

FISH

Pimephale promelas	4	LC50	MOR	135
Pimephale promelas	3	LC50	MOR	137
Pimephale promelas	2	LC50	MOR	164
Anodonta cataracta	6	LC50	MOR	5000

Xylene

Xylene

Species	Duration	Effect	Type	Conc. (ug/L)
INVERTEBRATES				
Gammarus fossarum	5	LC50	MOR	5300
Gammarus fossarum	4	LC50	MOR	6300
Gammarus fossarum	3	LC50	MOR	7900
Gammarus fossarum	2	LC50	MOR	10800
Aedes aegypti	1	EC50	IMM	13940
Gammarus fossarum	1	LC50	MOR	18400
Asellus aquaticus	4	LC50	MOR	20000
Asellus aquaticus	3	LC50	MOR	21000
Asellus aquaticus	2	LC50	MOR	23000
Asellus aquaticus	1	LC50	MOR	27000
Amphimelania holandri	4	LC50	MOR	35000
Lymnaea stagnalis	5	LC50	MOR	41000
Amphimelania holandri	3	LC50	MOR	50000
Lymnaea stagnalis	4	LC50	MOR	50000
Lymnaea stagnalis	3	LC50	MOR	65000
Amphimelania holandri	2	LC50	MOR	85000
Lymnaea stagnalis	2	LC50	MOR	93000
Brachionus calyciflorus	2	EC50	REP	99000
Diaptomus forbesi	4	LC50	MOR	99500
Daphnia magna	1	LC50	MOR	150000
Lymnaea stagnalis	1	LC50	MOR	172000
Asellus aquaticus	5	LC50	MOR	190000
Amphimelania holandri	1	LC50	MOR	207000
Brachionus calyciflorus	1	LC50	MOR	252700
Brachionus calyciflorus	1	LC50	MOR	253000
Brachionus calyciflorus	2	LC50	MOR	253000
Daphnia magna	1	LC50*	MOR	>100000

FISH

Oncorhynchus mykiss	4	LC50	MOR	8200
Lepomis macrochirus	1	LC50	MOR	10400
Lepomis macrochirus	0.67	LC50	MOR	11000
Pimephales promelas	4	LC50	MOR	13400
Lepomis macrochirus	4	LC50	MOR	13500
Oncorhynchus mykiss	1	LC50	MOR	13500
Oncorhynchus mykiss	4	LC50	MOR	13500
Lepomis macrochirus	0.33	LC50	MOR	13600
Lepomis macrochirus	4	LC50	MOR	15700
Lepomis macrochirus	0.17	LC50	MOR	15900
Lepomis macrochirus	2	LC50	MOR	16500
Lepomis macrochirus	3	LC50	MOR	16500
Lepomis macrochirus	1	LC50	MOR	16800
Carassius auratus	4	LC50	MOR	16940
Oncorhynchus mykiss	1	LC50	MOR	17300
Oncorhynchus mykiss	4	LC50	MOR	17300
Lepomis macrochirus	2	LC50	MOR	19000
Lepomis macrochirus	4	LC50	MOR	19000
Lepomis macrochirus	0.083	LC50	MOR	19900
Brachydanio rerio	2	LC50	MOR	20000
Carassius auratus	3	LC50	MOR	20720
Lepomis macrochirus	4	LC50	MOR	20870
Lepomis macrochirus	1	LC50	MOR	24000
Lepomis macrochirus	2	LC50	MOR	24000
Lepomis macrochirus	4	LC50	MOR	24500
Carassius auratus	2	LC50	MOR	25100
Lepomis macrochirus	1	LC50	MOR	25600
Lepomis macrochirus	2	LC50	MOR	25600

Xylene

Lepomis	macrochirus	3	LC50	MOR	25600
Pimephales	promelas	4	LC50	MOR	26700
Pimephales	promelas	2	LC50	MOR	27710
Pimephales	promelas	1	LC50	MOR	28770
Pimephales	promelas	1	LC50	MOR	28770
Pimephales	promelas	2	LC50	MOR	28770
Pimephales	promelas	4	LC50	MOR	28770
Lepomis	macrochirus	0.042	LC50	MOR	30500
Carassius	auratus	1	LC50	MOR	30550
Poecilia	reticulata	1	LC50	MOR	34730
Poecilia	reticulata	2	LC50	MOR	34730
Poecilia	reticulata	4	LC50	MOR	34730
Lepomis	macrochirus	1	LC50	MOR	36000
Carassius	auratus	1	LC50	MOR	36810
Carassius	auratus	2	LC50	MOR	36810
Carassius	auratus	4	LC50	MOR	36810
Pimephales	promelas	1	LC50	MOR	42000
Pimephales	promelas	2	LC50	MOR	42000
Pimephales	promelas	3	LC50	MOR	42000
Pimephales	promelas	4	LC50	MOR	42000
Pimephales	promelas	0.042	LC50	MOR	46000
Carassius	auratus	1	LC50	MOR	75000
Cyprinus	carpio	4	LC50	MOR	780000
Cyprinus	carpio	2	LC50	MOR	950000
Cyprinus	carpio	1	LC50	MOR	1080000

triphenylphosphine

tris(1-Aziridinyl)phosphine

Species	Duration	Effect	Type	Conc. (ug/L)
Oncorhynchus mykiss	4	LC50	MOR	>100000

Triphenylphosphine

Species	Duration	Effect	Type	Conc. (ug/L)
Pimephales promelas	4	LC50	MOR	53700

Chloronaphalenes

1-Choronaphthalene

Species	Duration	Effect	Type	Conc. (ug/L)
INVERTEBRATES				
Daphnia magna	2	LC50	MOR	1600
Daphnia magna	2	EC50	IMM	<5 mmol/m3
Daphnia magna	2	EC50	IMM	<5 mmol/m3
Daphnia magna	1	LC50	MOR	>3600

FISH

Lepomis macrochirus	4	LC50	MOR	2300
Lepomis macrochirus	1	LC50	MOR	3700

Octachloronaphthalene

INVERTEBRATES

Daphnia magna	1	LC50	MOR	>530000
Daphnia magna	2	LC50	MOR	>530000

FISH

Lepomis macrochirus	1	LC50	MOR	>600000
Lepomis macrochirus	4	LC50	MOR	>600000

Benzidine

BENZIDINE

Species	Duration	Effect	Type	Conc. (ug/L)
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INVERTEBRATES

Daphnia magna	2	EC50	IMM	600
Daphnia magna	1	EC50	IMM	1500

FISH

Oryzias latipes	2	LC50	MOR	10500
Oryzias latipes	1	LC50	MOR	16500

bis(2-Ethylhexyl)phthalate

Species	Duration (days)	Effect	Type	Conc (ug/L)
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PLANT

Selenastrum	capricornutum	4	EC50	GRO	>320
Chlorella	pyrenoidosa	4	EC50	GRO	>320
Stephanodiscu	hantzschii	4	EC50	GRO	>320
Euglena	gracilis	4	EC50	GRO	>320

AMPHIBIAN

Bufo	woodhousei	4	LC50	MOR	3880
Bufo	woodhousei	7.00-	LC50	MOR	3880
Rana	pipiens	4	LC50	MOR	4440
Rana	pipiens	7.00-	LC50	MOR	4440

INVERTEBRATE

Daphnia	pulex	2	EC50	IMM	133
Daphnia	magna	2	LC50	MOR	11000
Chironomus	plumosus	2	EC50	IMM	>18000
Brachydanio	rerio	4	LC50	MOR	>320
Brachydanio	rerio	4	LC50	MOR	>320
Daphnia	magna	1	EC50	IMM	>320
Daphnia	magna	14	LC50	MOR	>320
Daphnia	magna	21	LC50	MOR	>320
Gammarus	pseudolimnaeus	4	LC50	MOR	>32000
Gammarus	pseudolimnaeus	4	LC50	MOR	>32000
Daphnia	magna	1	LC50	MOR	>68000

FISH

Ictalurus	punctatus	4	LC50	MOR	690
Carassius	auratus	4	LC50	MOR	6180
Micropterus	salmoides	3.5	LC50	MOR	32100
Micropterus	salmoides	4	LC50	MOR	32900
Micropterus	salmoides	4	LC50	MOR	42100
Micropterus	salmoides	7.5	LC50	MOR	45500
Micropterus	salmoides	7.5	LC50	MOR	55700
Micropterus	salmoides	3.5	LC50	MOR	65500
Oncorhynchus	mykiss	23	LC50	MOR	139100
Oncorhynchus	mykiss	4	LC50	MOR	139500
Oncorhynchus	mykiss	27	LC50	MOR	139500
Oncorhynchus	mykiss	4	LC50	MOR	149200
Oncorhynchus	mykiss	27	LC50	MOR	149200
Oncorhynchus	mykiss	23	LC50	MOR	154000
Gasterosteus	aculeatus	35	NOEC	DVP	>=320
Gasterosteus	aculeatus	35	NOEC	GRO	>=320
Gasterosteus	aculeatus	35	NOEC	MOR	>=320
Gasterosteus	aculeatus	35	NOEC	MUL	>=320
Ictalurus	punctatus	4	LC50	MOR	>100000
Lepomis	macrochirus	4	LC50	MOR	>100000
Oncorhynchus	kisutch	4	LC50	MOR	>100000
Oncorhynchus	mykiss	4	LC50	MOR	>100000
Carassius	auratus	4	LC50	MOR	>186000
Carassius	auratus	8	LC50	MOR	>186000
Carassius	auratus	4	LC50	MOR	>191000
Carassius	auratus	8	LC50	MOR	>191000
Gasterosteus	aculeatus	1	NOEC	MOR	>300
Gasterosteus	aculeatus	2	NOEC	MOR	>300
Gasterosteus	aculeatus	3	NOEC	MOR	>300
Gasterosteus	aculeatus	4	NOEC	MOR	>300
Gasterosteus	aculeatus	1	NOEC	MUL	>300
Gasterosteus	aculeatus	2	NOEC	MUL	>300
Gasterosteus	aculeatus	3	NOEC	MUL	>300

Gasterosteus aculeatus	4	NOEC	MUL	>300
Gasterosteus aculeatus	1	LC50	MOR	>300
Gasterosteus aculeatus	2	LC50	MOR	>300
Gasterosteus aculeatus	3	LC50	MOR	>300
Gasterosteus aculeatus	4	LC50	MOR	>300
Gasterosteus aculeatus	35	LC50	MOR	>320
Jordanella floridae	2	LC50	MOR	>320
Jordanella floridae	2	LC50	MOR	>320
Jordanella floridae	4	LC50	MOR	>320
Jordanella floridae	4	LC50	MOR	>320
Jordanella floridae	7	LC50	MOR	>320
Jordanella floridae	28	LC50	MOR	>320
Oryzias latipes	2	LC50	MOR	>320
Oryzias latipes	2	LC50	MOR	>320
Oryzias latipes	4	LC50	MOR	>320
Oryzias latipes	4	LC50	MOR	>320
Oryzias latipes	4	LC50	MOR	>320
Oryzias latipes	7	LC50	MOR	>320
Oryzias latipes	28	LC50	MOR	>320
Oryzias latipes	28	LC50	MOR	>320
Poecilia reticulata	2	LC50	MOR	>320
Poecilia reticulata	7	LC50	MOR	>320
Poecilia reticulata	14	LC50	MOR	>320
Poecilia reticulata	28	LC50	MOR	>320
Lepomis macrochirus	1	LC50	MOR	>770000
Lepomis macrochirus	4	LC50	MOR	>770000

Section B

Terrestrial Toxicity Reference Values

Acetone Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		9700	OHM/TADS
Rat (young)	LD ₅₀	Single Dose	Mortality		5600	OHM/TADS
Mouse	LD ₅₀	Single Dose	Mortality		3000	RTECS, Pharma. Chem. J., 14:162, 1980
Rabbit	LD ₅₀	Single Dose	Mortality		5300	OHM/TADS
Rabbit	LD ₅₀	Single Dose	Mortality		5340	RTECS, FAO Rpt. Series 48A:86, 1970
Rat	ED ₅₀	Single Dose	Tremors		5800	RTECS, J. Toxicol. Environ. Health 15:609, 1985
Dog	ED _{Lo}	Single Dose	Coma		8000	RTECS, Ach. Exper. Path. Pharmacol. 18:218, 1984
Rat	LOAEL	14-day	Histopathology-Bone Marrow		6942	ASTDR, 1993
Rat	LOAEL	90-day	Kidney Damage & Organ Weights		500	IRIS, Office of Solid Waste, EPA, 1986
Rat	LOAEL	13-week	Reproductive Effects		3400	ASTDR, 1993
Rat	LOAEL	13-week	Liver&Kidney Weight, Hematolog	273 g/kg-total dose	3000	RTECS, NTP-TR NIH-91-3122
Mouse	LOAEL	14-day	Liver Histopathology		3896	ASTDR, 1993
Mouse	LOAEL	13-week	Liver & Spleen Weight	546 g/kg-total dose	6000	RTECS, NTP-TR NIH-91-3122
Rat	NOAEL	90-day	Kidney Damage & Organ Weights		100	IRIS, Office of Solid Waste, EPA, 1986
Rat	NOAEL	13-week	No Clinical Effects		3400	ASTDR, 1993
Mouse	NOAEL	14-day	Body Weight & Renal Effects		12725	ASTDR, 1993
Japanese Quail	NOAEL	Single Dose	Survival	40000 mg/kg-Diet		HSDB, Hill & Camardese, US Fish Wild. TR-2, 1986
Pheasant	NOAEL	Single Dose	Survival	40000 mg/kg-Diet		HSDB, US Fish Wild. SSR Wildlife #191, 1975

Aldrin Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		39	RTECS, Entomol. Soc. Am., Special Publ., 78-1:12, 1978
Mouse	LD ₅₀	Single Dose	Mortality		44	RTECS, Entomol. Soc. Am., Special Publ., 78-1:12, 1978
Rabbit	LD ₅₀	Single Dose	Mortality		50	RTECS, Assoc. Am. Pest. Control Off., 1966-7, 1966
Guinea Pig	LD ₅₀	Single Dose	Mortality		33	RTECS, Assoc. Am. Pest. Control Off., 1966-7, 1966
Hamster	LD ₅₀	Single Dose	Mortality		100	RTECS, Internat. J. Abnormal Develop. 9:11, 1974
Dog	LD ₅₀	Single Dose	Mortality		65	RTECS, Assoc. Am. Pest. Control Off., 1966-7, 1966
Duck	LD ₅₀	Single Dose	Mortality		520	RTECS, Down to Earth, 35:25, 1979
Pigeon	LD ₅₀	Single Dose	Mortality		56.2	RTECS, ASTM STP (680):157, 1979
Quail	LD ₅₀	Single Dose	Mortality		42.1	RTECS, ASTM STP (680):157, 1979
Mallard	LD ₅₀	Single Dose	Mortality		520	HSDB, US Fish & Wildl. Handbook Toxic. Pest. Wild., 1970
Pheasant	LD ₅₀	Single Dose	Mortality		16.8	HSDB, US Fish & Wildl. Handbook Toxic. Pest. Wild., 1970
Bobwhite Quail	LD ₅₀	Single Dose	Mortality		6.59	HSDB, US Fish & Wildl. Handbook Toxic. Pest. Wild., 1970
Tree Duck	LD ₅₀	Single Dose	Mortality		29.2	HSDB, US Fish & Wildl. Handbook Toxic. Pest. Wild., 1970
Calf (1-2 wk old)	LD ₁₀	Single Dose	Mortality		5	HSDB, Clarke, <i>et al.</i> , Veterinary Toxicology, 2nd Ed., 1981
Cattle	LD ₁₀	Single Dose	Mortality		25	HSDB, Clarke, <i>et al.</i> , Veterinary Toxicology, 2nd Ed., 1981
Sheep	LD ₁₀	Single Dose	Mortality		25	HSDB, Clarke, <i>et al.</i> , Veterinary Toxicology, 2nd Ed., 1981
Chick	LD ₁₀	Single Dose	Mortality		25	OHM/TADS
Chicken	ED ₅₀	Single Dose	Convulsions & Seizure		10	RTECS, J. Econom. Entomol. 45:121, 1952
Cat	LOAEL	Single Dose	Pulmonary Edema		15	RTECS, Communications Veterinariae, 2:71, 1958
Mouse	LOAEL	9-day (gestation)	Developmental Abnormalities	25 mg/kg-total dose	2.8	RTECS, Internat. J. Abnormal Develop. 9:11, 1974
Hamster	LOAEL	7-day (gestation)	Fetotoxicity	50 mg/kg-total dose	7.1	RTECS, Internat. J. Abnormal Develop. 9:11, 1974
Dog	LOAEL	44-week	Live Birth Index	73 mg/kg-total dose	0.24	RTECS, J. Am. Veterin. Med. Assoc. 123:28, 1953
Rat	LOAEL	2-year	Survival	50mg/kg-diet	4.1	HSDB, IARC V5 31, 1974
Rat	NOAEL	2-year	Survival & Growth	25 mg/kg-diet	2	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Rat	NOAEL	2-year	Survival	10 mg/kg-diet	0.82	HSDB, IARC V5 31, 1974

Mature Rat Body Weight (Average male & female) = 0.325 kg. Reference is USEPA, 1987 EPA/600/6-87/008
Mature Rat Food Consumption (Average male & female) = 0.0265 kg/day. Reference is USEPA, 1987 EPA/600/6-87/008

Aluminum Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Mouse (A)	LD ₅₀	Single Dose	Mortality		6207	RTECS, Brit. J. Indust. Med. 23:305, 1966
Mouse (A)	LD ₅₀	Single Dose	Mortality		4210	HSDB, Venugopal & Luckey, Metal Toxicity on Mammals, 1978
Mouse (A)	LD ₅₀	Single Dose	Mortality		770	HSDB, CHRIS Vol2, 1984
Mouse (A)	LD ₅₀	Single Dose	Mortality		970	HSDB, NRC, Drinking Water and Health Vol4, 1981
Mouse (A)	LD ₅₀	Single Dose	Mortality		6100	HSDB, Gosselein, et al., Clin. Tox. of Comm. Prod., 5th Ed., 1984
Rat (A)	LD ₅₀	Single Dose	Mortality		1930	HSDB, Venugopal & Luckey, Metal Toxicity on Mammals, 1978
Rat (B)	LOAEL	21-day (gestation)	Postnatal Mortality		272	HSDB, Shepard, Cat. Teratog. Agents, 4th Ed., 1986
Rat (C)	LOAEL	21-day (gestation)	Postnatal Mortality		378	HSDB, Shepard, Cat. Teratog. Agents, 4th Ed., 1986
Mouse (D)	LOAEL	14-day(gestation)	Fetal Reabsorbtion	200 mg/day	14.3	HSDB, Shepard, Cat. Teratog. Agents, 4th Ed., 1986
Rat (D)	LOAEL	14-day(gestation)	Growth of Offspring	1000 mg/kg-diet	88	HSDB, NRC, Drinking Water and Health Vol4, 1981
Sheep	LOAEL	Gestation	Reduced Number of Offspring		2	HSDB, Shepard, Cat. Teratog. Agents, 4th Ed., 1986
Rat (D)	NOAEL	14-day(gestation)	No Adverse Fetal Effects	0.1% (water)	14400	HSDB, Shepard, Cat. Teratog. Agents, 4th Ed., 1986
Rat (A)	NOAEL	30-day	Neuro-behavioral	0.3% (water)	43200	HSDB, Conner, et al., Pharm. Biochem. Behav. 31:467, 1988
<p>A = Aluminum Sulfate B = Aluminum Chloride C = Aluminum Lactate D = Aluminum Trichloride</p>						
<p>Mature Mouse Body Weight (female) = 0.035 kg, Reference is USEPA, 1987 EPA/600/6-87/008</p>						
<p>Mature Rat Body Weight (female) = 0.25 kg, Reference is USEPA, 1987 EPA/600/6-87/008</p>						
<p>Mature Rat Food Consumption (female) = 0.022 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008</p>						
<p>Mature Rat Water Consumption (female) = 0.036 L/day, Reference is USEPA, 1987 EPA/600/6-87/008</p>						

Antimony Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		7000	RTECS, Environ. Qual. Saf.1:1, 1975
Rat	LOAEL	Lifespan	Reduced Lifespan		0.35	IRIS, Schroder, <i>et al.</i> , J. Nutrition 100:59, 1970
Mouse	LOAEL	540-day	Reduced Lifespan	5 mg/L (water)	7.3	IRIS, Kanisawa & Schroder, 1969
Rat	LOAEL	20-day(gestation)	Reduced Maternal Body Weight	1 gm/L (water)	144	HSDB, Rossi, <i>et al.</i> , Teratog. Carcinog. Mutag. 7:491, 1987
Rat	LOAEL	80-day (A)	Growth	10 mg/L (water)	1338	HSDB, Rossi, <i>et al.</i> , Teratog. Carcinog. Mutag. 7:491, 1987
Sheep	LOAEL	Gestation	Reduced Number of Offspring		2	HSDB, Shepard, Cat. Teratog. Agents, 4th Ed., 1986
Rat	NOAEL	80-day (A)	Growth	1 mg/l (water)	134	HSDB, Rossi, <i>et al.</i> , Teratog. Carcinog. Mutag. 7:491, 1987

A = Dosing began as maternal during gestation and continued through 60 days of age

Mature Mouse Body Weight (average male & female) = 0.0545 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Mouse Water Consumption (average male & female) = 0.00795 L/day, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Rat Body Weight (female) = 0.25 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Rat Water Consumption (female) = 0.036 L/day, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Rat Body Weight (average male & female) = 0.325 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Rat Water Consumption (average male & female) = 0.0435 L/day, Reference is USEPA, 1987 EPA/600/6-87/008

Arsenic Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Cattle (H)	LD ₁₀	Single Dose	Mortality		33 to 55	Eisler, 1988
Cattle (H)	LD ₁₀	9-week	Mortality		17	Eisler, 1988
Cattle (A)	LD ₁₀	Single Dose	Mortality	1 to 4 g-total dose	4.2	Eisler, 1988
Dog (A)	LD ₁₀	Single Dose	Mortality	50 to 150 g-total dose	3.6	Eisler, 1988
Dog (I)	LD ₅₀	Single Dose	Mortality		1000	Eisler, 1988
Cat (A,K)	LD ₁₀	Chronic	Mortality		1.5	Eisler, 1988
Mouse (H)	LD ₅₀	Single Dose	Mortality		39.4	Eisler, 1988
White-tailed Deer (A)	LD ₁₀	Not Reported	Mortality		34	Eisler, 1988
Mallard (A)	LD ₅₀	Single Dose	Mortality		323	Eisler, 1988
Mallard (A)	LD ₅₀	32-day	Mortality	500 mg/kg-diet	27.9	Eisler, 1988
Pheasant (A)	LD ₅₀	Single Dose	Mortality		386	Eisler, 1988
Pheasant (C)	LD ₅₀	Single Dose	Mortality		1403	Eisler, 1988
Quail (A)	LD ₅₀	Single Dose	Mortality		47.6	Eisler, 1988
Bobwhite (C)	LD ₅₀	11-day	Mortality	480 mg/kg-diet	49.8	Eisler, 1988
Chicken (E)	LD ₅₀	Single Dose	Mortality		33	Eisler, 1988
Turkey (E)	LD ₅₀	Single Dose	Mortality		17.4	Eisler, 1988
Cowbird (G)	LD ₅₀	11-day	Mortality	99.8 mg/kg-diet	14.2	Eisler, 1988
Cowbird (G)	LD ₁₀₀	3-month	Mortality	100 mg/kg-diet	14.2	Eisler, 1988
Guinea Pig (F)	LOAEL	25-day	Blindness	350 mg/kg-diet	14.9	Eisler, 1988
Hamster (K)	LOAEL	Maternal Dose	Fetotoxicity		5 to 20	Eisler, 1988
Mouse (K)	LOAEL	Maternal Dose	Fetotoxicity		10	Eisler, 1988
Mouse (I)	LOAEL	10-day (gestation)	Fetal Malformations		400	Eisler, 1988
Mouse (A)	LOAEL	3-generation	Reduced Litter Size	5 mg/kg-diet	0.8	Eisler, 1988

Arsenic Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat (F)	LOAEL	7-generation	Survival & Reduced Litter Size	17.5 mg/kg-diet	1.4	Eisler, 1988
Dog (I)	NOAEL	90-day	No Adverse Effects	30 mg/kg-diet	0.9	Eisler, 1988
Dog (J)	NOAEL	90-day	No Adverse Effects	30 mg/kg-diet	0.9	Eisler, 1988
Mouse (H)	NOAEL	96-hour	Survival		10.4	Eisler, 1988
Mallard (B)	NOAEL	5-day	Clinical Signs	5000 mg/kg-diet	619	Eisler, 1988
Bobwhite (B)	NOAEL	5-day	Clinical Signs	1740 mg/kg-diet	481	Eisler, 1988
Chicken (D)	NOAEL	9-week	Clinical Signs	23.3 mg/kg-diet	1.1	Eisler, 1988
Bobwhite (B)	NOAEL	5-day	Clinical Signs	1740 mg/kg-diet	481	Eisler, 1988
Chicken (E)	NOAEL	9-week	Clinical Signs	187 mg/kg-diet	9	Eisler, 1988
Chicken (F)	NOAEL	9-week	Clinical Signs	455 mg/kg-diet	22	Eisler, 1988
Cowbird (G)	NOAEL	6 month	Clinical Signs	33 mg/kg-diet	4.7	Eisler, 1988

A = Sodium Arsenite

B = Sodium Cacodylate

C = Copper acetoarsenite

D = Dodecylamine p- chlorophenylarsonic acid

E = 3-Nitro-4-Hydroxy phenylarsonic acid

F = Arsanilic Acid

G = Copper Acetoarsenite

H = Arsenic Trioxide

I = Cacodylic Acid

J = Methanearsonic Acid

K = Arsenate

Average Cattle Body Weight = 239 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Dog Body Weight (average male & female) = 14 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Mallard Body Weight (average male & female) = 1.134 kg, Reference is USEPA, 1993, EPA/600/R-93/187a

Mature Bobwhite Body Weight (seasonal average) = 0.191 kg, Reference is USEPA, 1993, EPA/600/R-93/187a

Arsenic Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
	Assume a cowbird is similar to the Robin, Mature Body Weight (average) = 0.0773 kg, Reference is USEPA, 1993, EPA/600/R-93/187a					
Bird	Food Ingestion (based on all birds)					USEPA, 1993, EPA/600/R-93/187a
						⁶⁵¹ , Reference is USEPA 93, EPA/600/R-93/187a
Mature Guinea Pig	Body Weight (average male & female)					USEPA, 1987 EPA/600/6-87/008
Mature Guinea Pig	Food Consumption (average male & female)					USEPA, 1987 EPA/600/6-87/008
Mature Mouse	Body Weight (female)					USEPA, 1987 EPA/600/6-87/008
Mature Mouse	Food Consumption (female)					USEPA, 1987 EPA/600/6-87/008
Mature Rat	Body Weight (average male & female)					USEPA, 1987 EPA/600/6-87/008
Mature Rat	Food Consumption (average male & female)					USEPA, 1987 EPA/600/6-87/008
Mature Dog	Body Weight (average male & female)					USEPA, 1987 EPA/600/6-87/008
Mature Dog	Food Consumption (average male & female)					USEPA, 1987 EPA/600/6-87/008
No Quail	age was provided, assumed "young" i.e. 10-day, baby weight at 10-day averages 0.0115 kg (EPA 600/R-93/187a)					
No Mallard	age was provided, assumed "young" i.e. 10-day, baby weight at 10-day averages 0.115 kg (EPA 600/R-93/187a)					
Chicken	Body Weight (mature)					USEPA, 1987 EPA/600/6-87/008
Bird	Food Ingestion (based on all birds)					USEPA 93, EPA/600/R-93/187a

Barium Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Mouse (A)	LD ₅₀	Single Dose	Mortality		7 to 29	HSDB, Friberg, et al., <i>Hand. Toxicol. Metals</i> , 2Ed., Vol2, 1986
Rabbit (A)	LD ₅₀	Single Dose	Mortality		170	HSDB, Friberg, et al., <i>Hand. Toxicol. Metals</i> , 2Ed., Vol2, 1986
Rat (A)	LD ₅₀	Single Dose	Mortality		300-500	HSDB, Friberg, et al., <i>Hand. Toxicol. Metals</i> , 2Ed., Vol2, 1986
Rat (A)	LD ₅₀	Single Dose	Mortality		150	HSDB, Venugopal & Luckey, <i>Metal Toxicity in Mammals</i> , 1978
Rat (A)	LD ₅₀	Single Dose	Mortality		132	HSDB, Tardiff, et al., <i>J. Environ. Pathol. Toxicol.</i> 4:267, 1980
Rat (A)	LD ₅₀	Single Dose	Mortality		118	RTECS, Food Res. 7:313, 1942
Rat [A] (weaning)	LD ₅₀	Single Dose	Mortality		220	HSDB, Tardiff, et al., <i>J. Environ. Pathol. Toxicol.</i> 4:267, 1980
Guinea Pig (A)	LD ₅₀	Single Dose	Mortality		76	RTECS, Food Res. 7:313, 1942
Chicken (A)	LD ₁₀	3-week	Mortality	4000 mg/kg-diet	193	HSDB, Johnson, et al., <i>Proc. Soc. Exp. Biol. Med.</i> 104:436, 1960
Rabbit (B)	LD ₁₀	Not Reported	Mortality	150 mg/kg-total dose		RTECS, Yakyoku, <i>Pharmacy</i> 31:1247, 1980
Mouse (A)	LD ₁₀	Single Dose	Mortality		70	RTECS, <i>Environ. Qual Saf. Suppl.</i> 1:1, 1975
Rabbit (A)	LD ₁₀	Single Dose	Mortality		170	RTECS, <i>Drug Dosages in L. Animals, Barnes&Ehlerington Ed.s</i> , 1973
Dog (A)	LD ₁₀	Single Dose	Mortality		90	RTECS, <i>Drug Dosages in L. Animals, Barnes&Ehlerington Ed.s</i> , 1973
Rat	LOAEL	36-week	Kidney Histopathology	1000 mg/L (water)	134	IRIS, McCauley, et al., 1985
Rat [A] (young)	LOAEL	16-month	Increase in Blood Pressure		5.1	HSDB, Perry, et al., (cited) <i>Health Ad. Legionella Seven Inorg.</i> , 1987 PB87-235586
Chicken (A)	LOAEL	3-week	Growth & Survival	2000 mg/kg-diet	96.7	HSDB, Johnson, et al., <i>Proc. Soc. Exp. Biol. Med.</i> 104:436, 1960
Rat (A)	NOAEL	Chronic	No Measurable Effects	250 mg/L (water)	33.5	HSDB, Friberg, et al., <i>Hand. Toxicol. Metals</i> , 2Ed., Vol2, 1986
Rat [A] (young)	NOAEL	16-months	No Measurable Effects		0.51	HSDB, Perry, et al., (cited) <i>Health Ad. Legionella Seven Inorg.</i> , 1987 PB87-235586
Rat	NOAEL	Lifetime	No Measurable Effects		0.25	IRIS, Schroeder & Mutschener, 1975
Mouse	NOAEL	Lifetime	No Measurable Effects		0.825	IRIS, Schroeder & Mutschener, 1975
Chicken (A)	NOAEL	3-week	Growth & Survival	1000 mg/kg-diet	48.4	HSDB, Johnson, et al., <i>Proc. Soc. Exp. Biol. Med.</i> 104:436, 1960

A = Barium Chloride

Barium Oral Toxicity

B = Barium Nitrate

Chicken Body Weight (mature) = 1.7 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Bird Food Ingestion (based on all birds) = $0.0582 \times \text{BW}(\text{kg})^{0.61}$, Reference is USEPA 93, EPA/600/R-93/187a

Mature Rat Body Weight (average male & female) = 0.325 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Rat Water Consumption (average male & female) = 0.0435 L/day, Reference is USEPA, 1987 EPA/600/6-87/008

Benzidine Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Mouse	LD ₅₀	Single Dose	Mortality		214	RTECS, NTIS PB214-270
Rat	LD ₅₀	Single Dose	Mortality		309	RTECS, NTIS PB214-270
Dog	LD ₁₀	Single Dose	Mortality		200	OHM/TADS
Rabbit	LD ₁₀	Single Dose	Mortality		200	OHM/TADS
Rat	LD ₁₀	30-day	Mortality		4500	OHM/TADS
Hamster	LD ₁₀	3-year	Mortality		75000	OHM/TADS
Mouse	LOAEL	6-week	Hematology		9	ASTDR, 1989
Mouse	LOAEL	6-week	Hematology		9	ASTDR, 1989
Mouse	LOAEL	40-week	Hematology		2.4	ASTDR, 1989
Mouse	LOAEL	Life-time	Brain Lesions		1.8	ASTDR, 1989
Rabbit	LOAEL	5-year	Liver Cirrhosis		5.3	ASTDR, 1989
Mouse (male)	LOAEL	33-months	Multiple Histopathology		5.7	IRIS, Littlefield, <i>et al.</i> , J. Toxicol. Environ. Health 12:671, 1983
Mouse (female)	LOAEL	33-months	Multiple Histopathology		3.8	IRIS, Littlefield, <i>et al.</i> , J. Toxicol. Environ. Health 12:671, 1983
Dog	NOAEL	5-year	Survival		16	ASTDR, 1989

alpha and delta-BHC Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Mouse	LOAEL ^a	26-week	Liver Histopathology	600 mg/kg-diet	118	HSDB, IARC, V20:218, 1979
Mouse	LOAEL ^a	24-week	Enlarged Liver	500 mg/kg-diet	98	HSDB, IARC, V20:212, 1979
Mouse	LOAEL ^a	24-week	Liver Histopathology		13	ASTDR, 1989
Rat	LOAEL ^a	48-week	Liver Histopathology		25	ASTDR, 1989
Rat	LOAEL ^a	56-week	Liver Histopathology		2.5	ASTDR, 1989
Rat	LOAEL ^a	Life-span	Growth & Survival	800 mg/kg-diet	59.5	HSDB, IARC, V20:217, 1979
Rat	NOAEL ^d	48-week	Hepatic Effects		50	ASTDR, 1989
Rat	NOAEL ^a	56-week	Liver Histopathology		0.5	ASTDR, 1989
Mouse	NOAEL ^d	24-week	Hepatic Effects		65	ASTDR, 1989

a = alpha-BHC

d = delta-BHC

Mouse Average Body Weight (Chronic exposure) = 0.02415 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mouse Average Food Consumption (Chronic Exposure) = 0.00475 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Rat Body Weight (Average male & female) = 0.41kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Rat Food Consumption (Average male & female) = 0.0305 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008

Endosulfan Sulfate / Endosulfan Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		18	RTECS, Ag. Res. Ser. USDA Info. Memo. 20:9, 1966
Mouse	LD ₅₀	Single Dose	Mortality		7.36	RTECS, Toxicol. Letters 7:221, 1981
Rabbit	LD ₅₀	Single Dose	Mortality		28	RTECS, Veterin. Sci. 59:64, 1983
Hamster	LD ₅₀	Single Dose	Mortality		118	RTECS, Europ. J. Toxicol. Environ. Hyg. 7:159, 1974
Dog	LD ₅₀	Single Dose	Mortality		76.7	RTECS, Pesticide Manual 9:332, 1991
Cat	LD ₅₀	Single Dose	Mortality		2	RTECS, Perkow, W., Berlin, Verlag Paul Parey, 1971/76
Duck	LD ₅₀	Single Dose	Mortality		33	RTECS, Down to Earth 35:25, 1979
Wild Bird	LD ₅₀	Single Dose	Mortality		35	RTECS, Toxicol. Appl. Pharm. 21:315, 1972
Bobwhite Quail	LD ₅₀	Single Dose	Mortality	805 mg/kg-diet	223	HSDB, US Fish Wildlife SSR Wildlife Rpt #191, 1975
Japanese Quail	LD ₅₀	5-day	Mortality	1250 mg/kg-diet	305	HSDB, US Fish Wildlife SSR Wildlife Rpt #191, 1975
Pheasant	LD ₅₀	5-day	Mortality	1275 mg/kg-diet		HSDB, US Fish Wildlife SSR Wildlife Rpt #191, 1975
Mallard	LD ₅₀	5-day	Mortality	1053 mg/kg-diet	101	HSDB, US Fish Wildlife SSR Wildlife Rpt #191, 1975
Rat	LD _{Lo}	5-day	Mortality		36	HSDB, Dikshith & Datta Bull Environ Contam. Toxicol. 20:826, 1973
Cattle	LD _{Lo}	Not Reported	Mortality	8 g-total dose		HSDB, Clarke, et al., Veter. Toxicology 2nd Ed., 1981
Sheep	LD _{Lo}	2-day	Mortality		22	HSDB, Clarke, et al., Veter. Toxicology 2nd Ed., 1981
Rat	LOAEL	9-day	Fertility Effects	45 mg/kg-total dose	5	RTECS, Acta Pharmacologica et Toxicologica 42:150, 1978
Rat	NOAEL	2-year		30 mg/kg-diet	2.4	HSDB, Spencer, Res. Instit., Aq. Can., Info. Can. Publ. # 1093, 1982
9-day old Quail Body Weight = 10 to 13 g (average = 0.0115 kg) Reference is USEPA, 1993, EPA/600/R-93/187a						
14-day old Quail Body Weight = 13 to 20 g (average = 0.0165 kg), Reference is USEPA, 1993 EPA/600/R-93/187a						
16-day old Mallard Body Weight = 215 to 265 g (average = 0.240 kg), Reference is USEPA, 1993 EPA/600/R-93/187a						
Bird Food Ingestion (based on all birds, kg/day) = 0.0582 x Body Weight (kg) ^{0.651} Reference is USEPA, 1993 EPA/600/R-93/187a						
Mature Rat Body Weight = (average male & female) = 0.325 kg, Reference is USEPA, 1987, EPA/600/6-87/008						
Mature Rat Food Consumption = (average male & female) = 0.0265 kg/day, Reference is USEPA, 1987, EPA/600/6-87/008						

Cadmium Oral Toxicity

Test Species	Endpoint Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀ Single Dose	Mortality		890	RTECS, Tarasenko, Current Prob. Labor Hyg. Moscow, Pervyi Mosk. Institut... 1978
Rat*	LD ₅₀ Single Dose	Mortality		88	RTECS(R), Assoc. Food Drug Officials of U.S., 15:122, 1951
Mouse*	LD ₅₀ Single Dose	Mortality		60	RTEC(R), Acta Pharm. Tox. 48:108, 1981
Guinea Pig*	LD ₅₀ Single Dose	Mortality		63	RTEC(R), Food Research, 7:313, 1942
Chicken*	LD ₅₀ Single Dose	Mortality		165	RTEC(R), Wissenschaftliche Pub., 1979 -160, 1979
Rabbit	LD ₁₀ Single Dose	Mortality		70	RTECS, Arch. Mal. Prof. Med. Travall Soc. Soc. 34:127, 1973
Rat	LD ₁₀ Single Dose	Mortality		250	Eisler, 1985
Guinea Pig	LD ₁₀ Single Dose	Mortality		150	Eisler, 1985
Rat	LOAEL 16-week	Growth & Behavior of Offspring	155 mg/kg-total dose	1.4	RTECS, Bull. Environ. Contam. Toxicol. 20:96, 1978
Rat	LOAEL 22-day (gestation)	Developmental Abnormalities	23 mg/kg-total dose	1	RTECS, Proc. Soc. Exper. Biol. Med. 158:614, 1978
Rat*	LOAEL 10-day (gestation)	Fertility, Litter size	652 mg/kg-total dose	65.2	RTECS(R), J. Applied Tox., 2:255, 1982
Rat*	LOAEL 20-day (gestation)	Fetotoxicity	326 mg/kg-total dose	16.3	RTECS(R), Gigiena i Sanitariya 5(4):86, 1989
Rat*	LOAEL 9-day (gestation)	Fetal Death	14.68 mg/kg-total dose	1.6	RTECS(R), Tox. and Applied Pharm., 23:222, 1972
Rat*	LOAEL 9-week	Developmental Abnormalities	17 mg/kg-total dose	3.7	RTECS, Ecotox. & Env. Safety, 4:51, 1980
Rat*	LOAEL 13-day (gestation)	Developmental Abnormalities	280 mg/kg-total dose	21.5	RTECS(R), Nature, 239:231, 1972
Rat*	LOAEL 4-week	Growth	412 mg/kg-total dose	14.7	RTECS(R), Food & Chem. Tox., 28:435, 1990
Mouse*	LOAEL 19-day (gestation)	Fetotoxicity	248 mg/kg-total dose	13.1	RTECS(R), J. of Nutrition, 109:1640, 1979
Mouse*	LOAEL 5-day (gestation)	Developmental Abnormalities	6 mg/kg-total dose	1.2	RTECS(R), J. of Env. Path. and Tox., 1 (3):187, 1978
Mouse*	LOAEL 2-day (gestation)	Fetotoxicity	33 mg/kg-total dose	16.5	RTECS(R), Chiba Med. J., 61:335, 1985
Rabbit*	LOAEL 6-day (gestation)	Fertility	990 mg/kg-total dose	165	RTECS(R), J. Reproduction & Fert., 70:323, 1984
Chicken	LOAEL Not Reported	Reduced Egg Production	200 mg/kg-diet	9.7	Eisler, 1985
Japanese Quail	LOAEL 6-week	Hyperplasia, Anemia, Testicular Damage	75 mg/kg-diet	7.8	Eisler, 1985
Pigeon	LOAEL Not Reported	Cardiovascular Disease	0.6 mg/L (water)		Eisler, 1985
Black Duck	LOAEL 4-month	Hyperresponsiveness	4 mg/kg-diet	0.2	Eisler, 1985
Mallard Duckling	LOAEL 12-week	Hematology, Kidney Lesions	20 mg/kg-diet	1.7	Eisler, 1985
Mallard	NOAEL 90-day	Survival & Growth	200 mg/kg-diet	11.1	Eisler, 1985

Cadmium Oral Toxicity

* : Denotes dose of Cadmium Chloride

Chicken Body Weight (mature female) = 1.7 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Mallard (used for Black Duck also) Body Weight (average male & female) = 1.134 kg, Reference is USEPA, 1993, EPA/600/R-93/187a

Mature Quail Body Weight (seasonal average) = 0.191 kg, Reference is USEPA, 1993, EPA/600/R-93/187a

Juvenile Mallard (average from 15 to 30-days of age) Body Weight = 0.333 kg, Reference is USEPA, 1993, EPA/600/R-93/187a

Bird Food Ingestion (based on all birds) = $0.0582 \times \text{BW}(\text{kg})^{0.691}$, Reference is USEPA 93, EPA/600/R-93/187a

Carbon Disulfide Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		> 505	RTECS, <i>Biomedica Biochemica Acta</i> , 49:122, 1990
Mouse	LD ₅₀	Single Dose	Mortality		2780	RTECS, <i>Gigiena i Sanitariya</i> , 31:13, 1966
Rabbit	LD ₅₀	Single Dose	Mortality		2550	RTECS, <i>Gigiena i Sanitariya</i> , 31:13, 1966
Guinea Pig	LD ₅₀	Single Dose	Mortality		2125	RTECS, <i>Gigiena i Sanitariya</i> , 31:13, 1966
Rat	LOAEL	10-day (gestation)	Fetotoxicity	2000 mg/kg-total dose	200	RTECS, <i>Toxicologist</i> , 4:86, 1984
Rabbit	LOAEL	Not Reported	Fetal Reabsorption		25	IRIS, <i>Jones-Price et al.</i> , 1984 (NCTR-NTP)

Chlorobenzene Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration (mg/kg-total dose)	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		2910	OHM/TADS
Rat	LD ₅₀	Single Dose	Mortality		1110	RTECS, Tohoku Univ., Medicine 26:10, 1989
Rat	LD ₅₀	Single Dose	Mortality		2290	HSDB, NIH Publ. # 86-2517
Mouse	LD ₅₀	Single Dose	Mortality		1440	HSDB, NIH Publ. # 86-2517
Mouse	LD ₅₀	Single Dose	Mortality		2300	RTECS, Izmerov <i>et al.</i> , Centre Inter. Projects, GKNT, 1982-34
Guinea Pig	LD ₅₀	Single Dose	Mortality		5060	HSDB, NIH Publ. # 86-2517
Guinea Pig	LD ₅₀	Single Dose	Mortality		2250	RTECS, Izmerov <i>et al.</i> , Centre Inter. Projects, GKNT, 1982-34
Rat	LD ₁₀	Single Dose	Mortality		4000	HSDB, Kluwe, <i>et al.</i> J. Toxicol. Environ. Health 15:745, 1985
Rat	LD ₁₀	14-day	Mortality		1000	HSDB, Kluwe, <i>et al.</i> J. Toxicol. Environ. Health 15:745, 1985
Rat	LD ₁₀	14-day	Mortality	14000	1000	RTECS, J. Toxicol. Environ. Health 15:745, 1985
Rat	LD ₁₀	13-week	Mortality	32500	357	RTECS, J. Toxicol. Environ. Health 15:745, 1985
Mouse	LD ₁₀	Single Dose	Mortality		1000	HSDB, Kluwe, <i>et al.</i> J. Toxicol. Environ. Health 15:745, 1985
Mouse	LD ₁₀	13-week	Mortality	16250	179	RTECS, J. Toxicol. Environ. Health 15:745, 1985
Rat	LOAEL	90-day	Liver & Kidney Weight		50	IRIS NTP, 1985
Rat	LOAEL	90-day	Liver Weight		125	IRIS NTP, 1985
Rat	LOAEL	192-day	Liver Weight & Body Growth		144	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Rat	LOAEL	2-year	Liver Histopathology		120	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Mouse	LOAEL	90-day	Liver Weight		125	IRIS NTP, 1985
Mouse	LOAEL	2-year	Liver Histopathology		120	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Rabbit	LOAEL	63-week	Histopathology, Renal Failure	441	1	RTECS, Gigena i Sanitariya 20(7):7, 1955
Guinea Pig	LOAEL	63-week	Histopathology, Renal Failure	441	1	RTECS, Gigena i Sanitariya 20(7):7, 1955
Beagle Dog	LOAEL	13-week	Histopathology, Cytology		54.5	IRIS Knapp, <i>et al.</i> , Toxicol. Appl. Pharm. (Abstract) 19:393,1971
Rat	NOAEL	90-day	Liver & Kidney Weight		50	IRIS Knapp, <i>et al.</i> , Toxicol. Appl. Pharm. (Abstract) 19:393,1971
Rat	NOAEL	90-day	Liver Weight		60	IRIS NTP, 1985
Rat	NOAEL	192-day	Growth & Organ Weights		14.4	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Rat	NOAEL	2-year	Liver Histopathology		60	IRIS NTP, 1985
Mouse	NOAEL	90-day	Liver & Kidney Weight		60	IRIS NTP, 1985
Beagle Dog	NOAEL	13-week	Histopathology, Cytology		27.25	IRIS Knapp, <i>et al.</i> , Toxicol. Appl. Pharm. (Abstract) 19:393,1971

alpha-Chordane Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		500	RTECS, NTIS PB85-143766
Mouse	LD ₅₀	Single Dose	Mortality		125	RTECS, J. Agric. Food Chem., 21:1113, 1973
Rat (newborn)	LD ₅₀	Single Dose	Mortality		539	HSDB, Harbinson, Toxicol. Appl. Pharm. 32:443, 1975
Rat	LD ₅₀	Single Dose	Mortality		590	HSDB, Am Confer. Govern. Industr. Hyg. 1986:114
Mouse	LD ₅₀	Single Dose	Mortality		430	HSDB, Am Confer. Govern. Industr. Hyg. 1986:114
Rabbit	LD ₅₀	Single Dose	Mortality		300	HSDB, Am Confer. Govern. Industr. Hyg. 1986:114
Bobwhite Quail	LD ₅₀	5-day	Mortality	331 mg/kg-diet	46.5	HSDB, US Fish Wild., Special Report Wildlife #191, 1975
Japanese Quail	LD ₅₀	5-day	Mortality	350 mg/kg-diet	49.2	HSDB, US Fish Wild., Special Report Wildlife #191, 1975
Pheasant	LD ₅₀	5-day	Mortality	430 mg/kg-diet		HSDB, US Fish Wild., Special Report Wildlife #191, 1975
Mallard	LD ₅₀	5-day	Mortality	858 mg/kg-diet	54.5	HSDB, US Fish Wild., Special Report Wildlife #191, 1975
Mallard (young)	LD ₅₀	5-day	Mortality		1200	OMH/TADS
Rat	LOAEL	6-week	Decreased Survival		40	ASTDR, 1989
Rat	LOAEL	270-day	Decreased Survival		15	ASTDR, 1989
Rat	LOAEL	80-week	Decreased Survival		6	ASTDR, 1989
Mouse	LOAEL	6-week	Decreased Survival		20.8	ASTDR, 1989
Mouse	LOAEL	30-day	Decreased Survival		10	ASTDR, 1989
Mouse	LOAEL	80-week	Decreased Survival		3.9	ASTDR, 1989
Rat	LOAEL	2-year	Growth & Liver Damage	150 mg/kg-diet	12.2	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Rat	LOAEL	2-year	Liver Damage	10 mg/kg-diet	0.82	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Rat	LOAEL	30-month	Liver Lesions		0.273	IRIS, Velinicol Co., unpublished)
Rat	LOAEL	Weaning to Reproduction	Decreased Fertility		16	ASTDR, 1989
Rat	LOAEL	80-week	Decreased Growth		12.1	ASTDR, 1989
Mouse	NOAEL	30-day	Survival		3.2	ASTDR, 1989
Rat	NOAEL	10-day (gestation)	Fetal Development		80	ASTDR, 1989
Rat	NOAEL	2-year	Liver Damage	5 mg/kg-diet	0.41	HSDB, Patty's Indust. Hyg & Toxicol., 1982

alpha-Chordane Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	NOAEL	2-year	Growth	30 mg/kg-diet	2.4	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Mouse	NOAEL	5-day (gestation)	Fetal Development		50	ASTDR, 1989

No ages were reported for the bird data, assumed birds were juveniles

Quail Body Weight (age of 55 day) = 75 to 85 g (Average = 0.080 kg), Reference is USEPA, 1993 EPA/600/R-93/187a

Mallard Body Weight (age of 56 day) = 740 to 817 g (Average = 0.7785 kg), Reference is USEPA, 1993 EPA/600/R-93/187a

Bird Food Ingestion (based on all birds, kg/day) = 0.0582 x Body Weight (kg)^{0.651} Reference is USEPA, 1993 EPA/600/R-93/187a

Mature Rat Body Weight (Average male & female) = 0.325 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Rat Food Consumption (Average male & female) = 0.0265 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008

Chromium Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Dog (Cr VI)	LD ₅₀	3-month	Mortality	100 mg/kg-diet	3	Eisler, 1986
Rat (Cr VI)	LD ₅₀	3-month	Mortality	1000 mg/kg-diet	82	Eisler, 1986
Black Duck (young)[CrIII]	LOAEL	10-week	Reduced Survival	10 mg/kg-diet	2.7	Eisler, 1986
Rat (Cr III)	NOAEL	600 feedings (840-day)	No Effects	5% -diet, 5x-week	170	IRIS, Jvankovik & Preussman, Food Cosmet. Toxicol. 13:347, 1975
Guinea Pig (Cr III)	NOAEL	21-week	No Adverse Effects	50 mg/kg-diet	2.1	Eisler, 1986
Rat (Cr VI)	NOAEL	3-month	No Adverse Effects	134 mg/L (water)	18	Eisler, 1986
Rat (Cr VI)	NOAEL	1-year	No Effects		2.4	IRIS, MacKenzie, et al., Am. Med. Assoc. Ach. Ind. Health, 18:232, 1958
Rat (Cr VI)	NOAEL	1-year	No Effects	25 mg/L (water)	3.3	IRIS, MacKenzie, et al., Am. Med. Assoc. Ach. Ind. Health, 18:232, 1958
Dog (Cr VI)	NOAEL	4-year	No Effects		0.3	IRIS, Anwar, et al., 1961
Chicken (Cr VI)	NOAEL	32-day	No Adverse Effects	100 mg/kg-diet	4.8	Eisler, 1986
Black Duck (adult)[CrIII]	NOAEL	5-month	Survival, Growth, Reproduction	50 mg/kg-diet	2.8	Eisler, 1986
Black Duck (young) [CrIII]	NOAEL	Parental & 7-day	Fright Stimulus Response	100 mg/kg-diet	26.8	Eisler, 1986
Mature Dog Body Weight (average male & female) = 14 kg, Reference in USEPA, 1987 EPA/600/6-87/008						
Mature Dog Food Consumption (average male & female) = 0.435 kg/day, Reference in USEPA, 1987 EPA/600/6-87/008						
Mature Rat Body Weight (average male & female) = 0.325 kg, Reference in USEPA, 1987 EPA/600/6-87/008						
Mature Rat Food Consumption (average male & female) = 0.0265 kg/day, Reference in USEPA, 1987 EPA/600/6-87/008						
Mature Rat Water Consumption (average male & female) = 0.0435 L/day, Reference in USEPA, 1987 EPA/600/6-87/008						
Mature Guinea Pig Body Weight (average male & female) = 0.95 kg, Reference in USEPA, 1987 EPA/600/6-87/008						
Mature Guinea Pig Food Consumption (average male & female) = 0.0405 kg/day, Reference in USEPA, 1987 EPA/600/6-87/008						
Chicken Body Weight (mature) = 1.7 kg, Reference in USEPA, 1987 EPA/600/6-87/008						
Mature Mallard (used for Black Duck) Body Weight (average male & female) = 1.134 kg, Reference in USEPA, 1993, EPA/600/R-93/187a						
Juvenile Mallard (used for Black Duck)(average from 15 to 30-days of age) Body Weight = 0.333 kg, Reference in USEPA, 1993, EPA/600/R-93/187a						
Bird Food Ingestion (based on all birds) = 0.0582 x BW(kg) ^{0.61} , Reference in USEPA 93, EPA/600/R-93/187a						

Cobalt Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		6171	RTECS, J. Am. Coll. Toxicol. 1:686, 1992
Rat	LD _{Lo}	30-day	Mortality	30 mg/kg-diet	2	HSDB, Venugopal & Luckey, Metal Toxicity in Mammals, 1978
Sheep	LD _{Lo}	Not Reported	Mortality		6	HSDB, NRC, Drinking Water & Health, Vol1, 1977
Rabbit	LD _{Lo}	Single Dose	Mortality		750	RTECS, Arch. Internat. Pharmacol. Therapy, 62:347, 1939
Chicken	LD _{Lo}	Not Reported	Mortality	50 mg/kg-diet	2.4	HSDB, NRC, Drinking Water & Health, Vol1, 1977
Rat	LOAEL	Gestation	Embryotoxic, Reduced Birth Weight		0.05	HSDB, Shepard, Cat. Teratol. Agents, Vol4, 1986
Guinea Pig	LOAEL	5-week	Heart Damage		20	HSDB, Mohiuddin, et al., Am. Heart J. 80:532, 1970
Chicken	LOAEL	Not Reported	Growth	50 mg/kg-diet	2.4	OHM/TADS
Rat	NOAEL	14-week	Survival	1 mg/L (water)	0.13	HSDB, Clayton & Clayton, Patty's Ind. Hyg. Toxicol. Vol2, 1982
Chicken	NOAEL	Not Reported	No Adverse Effects	5 mg/kg-diet	0.24	HSDB, NRC, Drinking Water & Health, Vol1, 1977
Mature Rat Body Weight (average male & female) = 0.325 kg, Reference is USEPA, 1987 EPA/600/6-87/008						
Mature Rat Food Consumption (average male & female) = 0.0265 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008						
Mature Rat Water Consumption (average male & female) = 0.0435 L/day, Reference is USEPA, 1987 EPA/600/6-87/008						
Chicken Body Weight (mature female) = 1.7 kg, Reference in USEPA, 1987 EPA/600/6-87/008						
Bird Food Ingestion (based on all birds) = 0.0582 x BW(kg) ^{0.651} , Reference is USEPA 93, EPA/600/R-93/187a						

Copper Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		140	RTECS, Environ. Qual. Saf., Suppl. 1:1, 1975
Rat	LD ₅₀	Single Dose	Mortality		1,000	RTECS, Farm. Chem. Handbook, C81, 1991
Duck	LD ₅₀	Single Dose	Mortality		5,000	RTEC, Pest. Manual, 9:184, 1991
Duck	LDLo	Single Dose	Mortality		600	RTEC, Austral. Vet. J., 16:147, 1940
Quail	LD ₅₀	Single Dose	Mortality		3,400	RTEC, Pest. Manual, 9:184, 1991
Pigeon	LDLo	Single Dose	Mortality		1,000	RTEC, Austral. Vet. J., 16:147, 1940
Wild Bird Species	LDLo	Single Dose	Mortality		300	RTEC, Austral. Vet. J., 16:147, 1940
Dog	LDLo	Single Dose	Mortality		60	RTEC, Abdermalden's Handbuch der Biol., 4:1289, 1935
Goat, Sheep	LDLo	Single Dose	Mortality		5	RTEC, J. of Comp. Path., 82:47, 1972
Chicken (chicks)	LOAEL	Not Reported	Growth, Muscular Dystrophy	325 mg/kg-diet	52	HSDB, Clark <i>et al.</i> , Veterin. Toxicol. 2nd Ed. 1981
Chicken	LOAEL	4-week	Growth		57	NAS, 1980
Chicken	LOAEL	10-week	Minimum Toxic Level		88	NAS, 1980
Rat	LOAEL	4-week	Growth, Organ weight		412	RTECS, Food Chem. Tox., 28:435, 1990
Rat	LOAEL	2 to 14-week	Hepatic & Renal Narcosis		150	ASTDR, 1990
Rat	LOAEL	3 to 15-week	Hepatic & Renal Narcosis		150	ASTDR, 1990
Rat	LOAEL	18-week	Growth		130	ASTDR, 1990
Rat	LOAEL	20-day	Weight Loss & Hcoatic Narcosis		100	ASTDR, 1990
Mink	LOAEL	50-week	Survival		3	ASTDR, 1990
Pig	LOAEL	Not Reported	Growth, Liver/Kidney/Spleen Degeneration	500 mg/kg-diet	15	HSDB, Venugopal & Luckey, Metal Toxicity in Mammals, 1978
Pig	LOAEL	Not Reported	Degeneration	750 mg/kg-diet	23	HSDB, Venugopal & Luckey, Metal Toxicity in Mammals, 1978
Sheep	LOAEL	Not Reported	Survival	20 mg/kg-diet (D.W.)		HSDB, Venugopal & Luckey, Metal Toxicity in Mammals, 1978
Lamb	LOAEL	16-week	Survival	27 mg/kg-diet		HSDB, Clark <i>et al.</i> , Veterin. Toxicol. 2nd Ed. 1981
Calf	LOAEL	20-week	Jaundice, Liver Damage	20 mg/kg-diet		HSDB, Venugopal & Luckey, Metal Toxicity in Mammals, 1978
Duck	NOAEL	8-week	No Adverse Effects		10	NAS, 1980

Copper Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Turkey	NOAEL	21-week	No Adverse Effects		70	NAS, 1980
Mink	NOAEL	50-week	Reproduction		12.9	NAS, 1980

Chick Body Weight estimated at an age of 7 days = 0.073 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Chick/Chicken Food Ingestion (based on all birds) = 0.0582 x BW(kg)^{0.651}, Reference is USEPA 93, EPA/600/R-93/187a

Average Pig Body Weight = 40 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Average Sheep Body Weight = 47.75 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Pig or Sheep Food Ingestion (based on all animals) = 0.065 x BW(kg)^{0.7919}, Reference is USEPA, 1987, EPA/600/6-87/008

Cyanide Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Mallard	LD ₅₀	Single Dose	Mortality		1.43	Eisler, 1991
Turkey Vulture	LD ₅₀	Single Dose	Mortality		2.54	Eisler, 1991
Turkey Vulture	LD ₁₀₀	Single Dose	Mortality		19.1	Eisler, 1991
Japanese Quail (male)	LD ₅₀	Single Dose	Mortality		5.5	Eisler, 1991
Japanese Quail (female)	LD ₅₀	Single Dose	Mortality		4.5	Eisler, 1991
American Kestrel	LD ₅₀	Single Dose	Mortality		2.12	Eisler, 1991
Eastern Screech Owl	LD ₅₀	Single Dose	Mortality		4.6	Eisler, 1991
Starling	LD ₅₀	Single Dose	Mortality		9.0	Eisler, 1991
Chicken	LD ₅₀	Single Dose	Mortality		11.1	Eisler, 1991
Dog	LD ₅₀	Single Dose	Mortality		24.0	Eisler, 1991
Coyote	LD ₅₀	Single Dose	Mortality		4.1	Eisler, 1991
Rabbit	LD ₅₀	Single Dose	Mortality		2.5	Eisler, 1991
Rat	LD ₅₀	Single Dose	Mortality		3.6	Eisler, 1991
Chicken (chicks)	LOAEL	20-day	Growth	135 mg/kg-diet	19.6	Eisler, 1991
African Giant Rat	LOAEL	2-week	Growth	720 mg/kg-diet		Eisler, 1991
Rat	LOAEL	4-week	Growth	200 mg/L (water)	26.8	Eisler, 1991
Rat	LOAEL	50-week	Growth	1500 mg/kg-diet	122.5	Eisler, 1991
Chicken (chicks)	NOAEL	8-week	No Adverse Effects	103 mg/kg-diet	14.9	Eisler, 1991
Dog	NOAEL	30-day	No Adverse Effects	150 mg/kg-diet	4.7	Eisler, 1991
African Giant Rat	NOAEL	16-week	No Adverse Effects	597 mg/kg-diet		Eisler, 1991

Cyanide Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	NOAEL	21-day	No Adverse Effects		8	Eisler, 1991
Rat	NOAEL	2-year Gestation & Lactation	No Adverse Effects		12	Eisler, 1991
Rat	NOAEL		No Reproductive Effects	500 mg/kg-diet	40.8	Eisler, 1991
Chick Body Weight estimated at an age of 7 days = 0.073 kg, Reference in USEPA, 1987 EPA/600/6-87/008						
Chick/Chicken Food Ingestion (based on all birds) = 0.0582 x BW(kg) ^{0.651} , Reference is USEPA 93, EPA/600/R-93/187a						
Mature Rat Body Weight (average male & female) = 0.325 kg, Reference is USEPA, 1987 EPA/600/6-87/008						
Mature Rat Food Consumption (average male & female) = 0.0265 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008						
Mature Rat Water Consumption (average male & female) = 0.0435 L/day, Reference is USEPA, 1987 EPA/600/6-87/008						
Mature Dog Body Weight (average male & female) = 14 kg, Reference is USEPA, 1987 EPA/600/6-87/008						
Mature Dog Food Consumption (average male & female) = 0.435 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008						

1,4-Dichlorobenzene Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		500	RTECS, World Rev. Pest Control, 9:199, 1970
Mouse	LD ₅₀	Single Dose	Mortality		2950	RTECS, Guide Chem. Used Crop Prot. 6:183, 1973
Rabbit	LD ₅₀	Single Dose	Mortality		2830	RTECS, Yakkyoku, Pharmacy 29:453, 1978
Rats	LD ₁₀	Single Dose	Mortality		1000	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Guinea Pig	LD ₁₀	Single Dose	Mortality		2800	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Rat	LD ₁₀	14-day	Mortality	14 g/kg-total dose	1000	RTECS, NTP-TR-319,87
Rabbit	LD ₁₀	31-week	Mortality	92 g/kg-total dose	424	RTECS, AMA Arch. Indust. Health 14:138, 1956
Rat	LOAEL	10-day (gestation)	Fetal Body Weight		1000	HSDB, Giavini, et al., Bull Environ. Contam. Toxicol, 37(2)
Rat	LOAEL	13-week	Renal Failure	5.85 g/kg-total dose	643	RTECS, NTP-TR-319,87
Rat	LOAEL	4-week	Renal Failure, Liver Damage	10 g/kg-total dose	357	RTECS, AMA Arch. Indust. Health 14:138, 1956
Rat	LOAEL	192-day	Liver Weight & Cirrhosis	138 doses of 376 mg/kg	270	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Mouse	LOAEL	13-week	Liver Necrosis & Kidney Weight	5.85 g/kg-total dose	643	RTECS, NTP-TR-319,87
Rat	NOAEL	10-day	Fetal Development		750	HSDB, Giavini, et al., Bull Environ. Contam. Toxicol, 37(2)
Rat	NOAEL	192-day	Liver Weight & Cirrhosis	138 doses of 18.8 mg/kg	13.5	HSDB, Patty's Indust. Hyg & Toxicol., 1982

Dieldrin Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		38.3	RTECS, J. Agric. Food Chem. 3:402, 1955
Mouse	LD ₅₀	Single Dose	Mortality		38	RTECS, Entomol. Soc. Am. Special Publ. 78-1:13, 1978
Rabbit	LD ₅₀	Single Dose	Mortality		45	RTECS, Assoc. Am. Pest. Control Off. 1966-:377, 1966
Guinea Pig	LD ₅₀	Single Dose	Mortality		49	RTECS, Assoc. Am. Pest. Control Off. 1966-:377, 1966
Hamster	LD ₅₀	Single Dose	Mortality		60	RTECS, Internat. J. Abnormal Develop. 9:11, 1974
Dog	LD ₅₀	Single Dose	Mortality		65	RTECS, Guide Chem. Used Crop Protect. 6:198, 1974
Pig	LD ₅₀	Single Dose	Mortality		38	RTECS, Europ. J. Toxicol. Environ. Hyg. 7:159, 1974
Monkey	LD ₅₀	Single Dose	Mortality		3	RTECS, Jager, Aldrin Dieldrin Endrin and Telodrin, Elsevier Publ. 1970
Sheep	LD ₅₀	Single Dose	Mortality		50 to 75	HSDB, Jager, Aldrin Dieldrin Endrin and Telodrin, Elsevier Publ. 1970
Goat	LD ₅₀	Single Dose	Mortality		100 to 200	HSDB, US Fish & Wild. Handbook Toxic. Pest. Wild., 1984
Mallard	LD ₅₀	Single Dose	Mortality		381	HSDB, US Fish & Wild. Handbook Toxic. Pest. Wild., 1984
Pheasant	LD ₅₀	Single Dose	Mortality		79	HSDB, US Fish & Wild. Handbook Toxic. Pest. Wild., 1984
Partridge	LD ₅₀	Single Dose	Mortality		23.4	HSDB, US Fish & Wild. Handbook Toxic. Pest. Wild., 1984
House Sparrow	LD ₅₀	Single Dose	Mortality		47.6	HSDB, US Fish & Wild. Handbook Toxic. Pest. Wild., 1984
Canada Goose	LD ₅₀	Single Dose	Mortality		50 to 150	HSDB, US Fish & Wild. Handbook Toxic. Pest. Wild., 1984
Tree Duck	LD ₅₀	Single Dose	Mortality		100 to 200	HSDB, US Fish & Wild. Handbook Toxic. Pest. Wild., 1984
Gray Partridge	LD ₅₀	Single Dose	Mortality		8.84	HSDB, US Fish & Wild. Handbook Toxic. Pest. Wild., 1984
Mule Deer	LD ₅₀	Single Dose	Mortality		75 to 150	HSDB, US Fish & Wild. Handbook Toxic. Pest. Wild., 1984
Duck	LD ₅₀	Single Dose	Mortality		381	RTECS, Toxicol. Appl. Pharmacol. 29:57, 1971
Pigeon	LD ₅₀	Single Dose	Mortality		23.7	RTECS, ASTM STP(680):157, 1979
Japanese Quail	LD ₅₀	5-day	Mortality	60 mg/kg-diet	285	HSDB, Hill & Camardese, US Fish Wild. Technical Rpt 2, 1986
Cat	LD ₁₀	Single Dose	Mortality		500	RTECS, Communicationes Veterinariae 2:78, 1958
Quail	ED ₅₀	Single Dose	Altered Sleep Time & Righting Reflex		10.78	RTECS, Environ. Toxicol. Chem 1:157, 1982
Chicken	ED ₅₀	Single Dose	Behavioral Effects		20	RTECS, J. Econom Entomol. 44:1013, 1951
Raccoons	LOAEL	Not Reported	Reduced Litter Size & Fertility	2 mg/kg-diet	0.101	HSDB, NRC, Drinking Water & Health V011, 1977
Dog	LOAEL	44-week	Live Birth Index	219 mg/kg-total dose	0.71	RTECS, J. Am. Veterin. Med. Assoc. 123:28, 1953
Mouse	LOAEL	9-day (gestation)	Skeletal Malformations		6	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Mouse	LOAEL	9-day (gestation)	Fetotoxicity	2.25 mg/kg-total dose	0.25	RTECS, Internat. J. Abnormal Develop. 16:57, 1977
Mouse	LOAEL	2-generations	Histopathology, lung, kidney, brain	3mg/kg-diet	0.535	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Hamster	LOAEL	8-day (gestation)	Fetotoxicity	30 mg/kg-total dose	3.75	RTECS, Internat. J. Abnormal Develop. 9:11, 1974
Hamster	LOAEL	Lifetime	Growth	20 mg/kg-diet	1.87	HSDB, Cabral, <i>et al.</i> , Cancer Lett 6:241, 1979

Dieldrin Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
White-tailed Deer	LOAEL	3-year	Growth	5 mg/kg-diet		HSDB, Murphy&Korschgen, Wildlife Mgmt. 34:887, 1970
White-tailed Deer	LOAEL	3-year	Liver, Pituitary, Thyroid Weights	25 mg/kg-diet		HSDB, Murphy&Korschgen, Wildlife Mgmt. 34:887, 1970
Pigeon	LOAEL	Not Reported	Hyperplastic Goiters		1	HSDB, Jefferies&French, Wildlife Mgmt. 36:24, 1972
Rat	LOAEL	88-day	Growth	88 mg/kg-total dose	1	RTECS, J. Toxicol. Environ. Health 25:461, 1988
Rat	LOAEL	2-year	Hepatic Lesions		0.05	IRIS, Walker, et al., Toxicol. Appl. Pharmacol. 15:345, 1969
Rat	NOAEL	9-day (gestation)	Teratology		6	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Mouse	NOAEL	9-day (gestation)	Teratology		3	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Hamster	NOAEL	50-week	Survival	80 mg/kg-diet	7.48	HSDB, Cabral, et al., Cancer Lett 6:241, 1979
Rat	NOAEL	2-year	Survival & Hematology		0.5	IRIS, Walker, et al., Toxicol. Appl. Pharmacol. 15:345, 1969

Adult Raccoon Body Weight = (average of male & female) = 5.616 kg; Reference is USEPA, 1993; EPA/600/R-93/187a

Adult Raccoon Food Consumption = (based on all mammals) = 0.0687 x BW(kg)^{0.822}; Reference is USEPA, 1993; EPA/600/R-93/187a

Mature Mouse Body Weight (BAF1 hybrid) = (average of male & female) = 0.0325 kg; Reference is USEPA, 1987, EPA/600/6-87/008

Mature Mouse Food Consumption (BAF1 hybrid) = (average male & female) = 0.0058 kg/day; Reference is USEPA, 1987, EPA/600/6-87/008

Mature Hamster Body Weight = (average male & female) = 0.155 kg; Reference is USEPA, 1987, EPA/600/6-87/008

Mature Hamster Food Consumption = (average male & female) = 0.0145 kg/day, Reference is USEPA, 1987, EPA/600/6-87/008

/600/R-93/187a

"Young" Quail (approx. 10-day) Food Consumption (based on all birds) = 0.0582 x BW(kg)^{0.651}; Reference is USEPA, 1993, EPA/600/R-93/187a

2,4-Dimethylphenol Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		3200	RTECS, Labor Hyg. Occup. Diseases 18:58, 1974
Mouse	LD ₅₀	Single Dose	Mortality		809	RTECS, Labor Hyg. Occup. Diseases 18:58, 1974
Mouse	LOAEL	90-day	Adrenal Weight		250	IRIS, Dynamic Corp. Office Solid Waste Study # 410-2831
Rabbit	NOAEL	Single Dose	Toxic Effects		425	HSDB, NRC Drinking Water and Health Vol1, 1977
Mouse	NOAEL	90-day	Survival, Growth, Histopathology		250	IRIS, Dynamic Corp. Office Solid Waste Study # 410-2831

bis (2-Ethylhexyl) Phthalate Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		30000	OHM/TADS
Rat	LD ₅₀	Single Dose	Mortality		30600	RTECS, Environ. Health Perspec. 3:131, 1973
Rat	LD ₅₀	Single Dose	Mortality		26000	OHM/TADS
Mouse	LD ₅₀	Single Dose	Mortality		14200	OHM/TADS
Mouse	LD ₅₀	Single Dose	Mortality		30000	RTECS, Internat. J. Abnormal Develop. 14:259, 1976
Rabbit	LD ₅₀	Single Dose	Mortality		34000	OHM/TADS
Guinea Pig	LD ₅₀	Single Dose	Mortality		26000	RTECS, IARC, 29:269, 1982
Rat	LOAEL	21-day	Fetotoxicity	7.14 g/kg-total dose	340	RTECS, Toxicol. Appl. Pharmacol. 26:253, 1973
Rat	LOAEL	10-day (gestation)	Fetotoxicity	10 g/kg-total dose	1000	RTECS, Indian J. Exper. Biol. 27:885, 1989
Rat	LOAEL	12-day (gestation)	Developmentary Abnormalities	9766 mg/kg-total dose	465	RTECS, Inter. J. Abnormal Develop. 35:41, 1987
Rat	LOAEL	90-day	Growth	1.5 g/kg-diet	130.5	HSDB, IARC, V29, 280, 1982
Rat	LOAEL	3-week	Liver & Kidney Weight	0.1 %-diet	8694	HSDB, EPA Document 40-8226118
Rat	LOAEL	7-day	Survival	17.5 g/kg-total dose	2500	RTECS, Toxicol. Appl. Pharm. 61:205, 1981
Rat	LOAEL	6-week	Survival	59388 mg/kg-total dose	1414	RTECS, Food Cosmetics Toxicol. 15:389, 1977
Rat	LOAEL	17-week	Decreased Weight Gain	168 g/kg-total dose	1412	RTECS, Food Cosmetics Toxicol. 15:389, 1977
Rat	LOAEL	21-day	Liver Weight	19796 mg/kg-total dose	943	RTECS, Food Cosmetics Toxicol. 15:389, 1977
Rat	LOAEL	21-day	Liver Weight	25.2 g/kg-total dose	1200	RTECS, Toxicol. Appl. Pharm. 77:116, 1985
Rat	LOAEL	14-day	Liver Weight	14 g/kg-total dose	1000	RTECS, Toxicol. Letters 66:317, 1993
Dog	LOAEL	1-year	Cloudy & Enlarged Liver	0.09ml/kg-BW/day	88.7	HSDB, Patty's Indust. Hyg & Toxicol., 1982
Mouse	LOAEL	14-day	Survival	84 g/kg-total dose	6000	RTECS, Toxicol. Letters 66:317, 1993
Mouse	LOAEL	13-week	Survival	33852 mg/kg-total dose	372	RTECS, NTP-TR-217, 82
Mouse	LOAEL	103-week	Kidney & Pituitary Histopathology	6000 mg/kg-diet	1033	HSDB, Kluwe <i>et al.</i> , 1982
Mouse	LOAEL	Gestation	Birth Defects, Maternal Weight Gain	0.2 %-diet	34857	HSDB, Shiota & Nishimura, 1982
Mouse	LOAEL	8-day (gestation)	Decreased Litter Size	78.88 g/kg-total dose	9860	RTECS, Terrat. Carcin. Mutagen. 7:29, 1987
Mouse	LOAEL	7-day (gestation)	Fetotoxicity	50 mg/kg-total dose	7	RTECS, Environ. Health Perspect. 45:71, 1982

bis (2-Ethylhexyl) Phthalate Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Mouse	LOAEL	7-day (gestation)	Fetotoxicity	1 g/kg-total dose	143	RTECS, Environ. Health Prospect. 45:71, 1982
Mouse	LOAEL	17-day (gestation)	Fertility & Fetotoxicity	2.04 g/kg-total dose	120	RTECS, NTIS PB85-105674
Rat	NOEL	7-day	Histopathology	2 %-diet	17405	HSDB, EPA Document #878210916, ibe# OTS026292, 1982
Rat	NOEL	90-day	Body Weight & Histopathology	7.5 g/kg-diet	579	HSDB, IARC, V29, 280, 1982
Rat	NOEL	103-week	Survival	12000 mg/kg-diet	1044	HSDB, IARC, V29, 279, 1982
Dog	NOAEL	1-year	Organ Weight & Liver Function	0.05cm/kg-BW/day	88.7	HSDB, Paty's Indust. Hyg & Toxicol., 1982
Mouse	NOAEL	Gestation	Fetal Development	0.1 %-diet	17429	HSDB, Shioa & Nishimura, 1982
Marmoset	NOAEL	14-day	Liver & Testes Effects	5mM/kg-BW/day	1953	HSDB, Rhodes, et al., Environ. Health Prospect. 65:299, 1986

DEHP Density = 0.9864 g/ml, Reference is HSDB

DEHP Molecular Weight = 390.6, Reference is ASTER

Rat Average Body Weight (Chronic Exposure) = 0.3045 kg, Reference is USEPA, 1987, EPA 600/6-87/008

Rat Average Food Consumption (Chronic Exposure) = 0.0765 kg/day, Reference is USEPA, 1987, EPA 600/6-87/008

Mouse Average Body Weight (Chronic Exposure) = 0.0363 kg, Reference is USEPA, 1987, EPA 600/6-87/008

Mouse Average Food Consumption (Chronic Exposure) = 0.00625 kg/day, Reference is USEPA, 1987, EPA 600/6-87/008

Female Mouse Average Body Weight (Mature) = 0.035 kg, Reference is USEPA, 1987, EPA 600/6-87/008

Female Mouse Average Food Consumption (Mature) = 0.0061 kg/day, Reference is USEPA, 1987, EPA 600/6-87/008

Heptachlor Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		40	RTECS, <i>Entomom. Soc Am.</i> 78-1:12, 1978
Rat	LD ₅₀	Single Dose	Mortality		130	HSDB, <i>Res. Instit. Canada, Public.</i> 1093, 1982
Rat	LD ₅₀	Single Dose	Mortality		40 to 188	HSDB, <i>Am. Conf. Gover. Indust. Hyg.</i> 1986: 296
Rat	LD ₅₀	Single Dose	Mortality		100 to 162	<i>Verschueren, Handbook Environ. Data Org. Chem.</i> 2Ed, 1983
Mouse	LD ₅₀	Single Dose	Mortality		68	RTECS, <i>Entomom. Soc Am.</i> 78-1:12, 1978
Guinea Pig	LD ₅₀	Single Dose	Mortality		116	RTECS, <i>Assoc. Am. Pest. Control Off.</i> 1966:576, 1966
Hamster	LD ₅₀	Single Dose	Mortality		100	RTECS, <i>Europ. J. Toxicol. Environ. Hyg.</i> 7:159, 1974
Calf	LD ₅₀	Single Dose	Mortality		20	HSDB, <i>Jones, et al., Veterin. Pharmacol. Therap.</i> 4thEd, Ames Iowa, 1977
Cat	LD ₁₀	Single Dose	Mortality		50	RTECS, <i>Labor Hyg. Occup. Diseases</i> , 2:15, 1958
Bobwhite Quail	LD ₅₀	5-day	Mortality	92 mg/kg-diet	19.5	HSDB, <i>US Fish Wildlife, SSR-Wildlife #191</i> , 1975
Pheasant	LD ₅₀	5-day	Mortality	224 mg/kg-diet		HSDB, <i>US Fish Wildlife, SSR-Wildlife #191</i> , 1975
Japanese Quail	LD ₅₀	5-day	Mortality	93 mg/kg-diet	20.3	HSDB, <i>US Fish Wildlife, SSR-Wildlife #191</i> , 1975
Mallard	LD ₅₀	5-day	Mortality	480 mg/kg-diet	59.3	HSDB, <i>US Fish Wildlife, SSR-Wildlife #191</i> , 1975
Dog	LOAEL	1-year	Survival		1	HSDB, <i>Am. Conf. Government. Indust. Hyg.</i> 1986: 296
Pig	LOAEL	78 to 86-day	Hepatic Necrosis		2	HSDB, <i>EPA Contract#68-02-4131</i> , 1985
Sheep	LOAEL	78 to 86-day	Hepatic Necrosis		2	HSDB, <i>EPA Contract#68-02-4131</i> , 1985
Rat	LOAEL	78 to 86-day	Hepatic Necrosis		2	HSDB, <i>EPA Contract#68-02-4131</i> , 1985
Mink	LOAEL	28-day	Loss of Body Weight	25 mg/kg-diet	5.5	HSDB, <i>Aulerich, et al., Arch Environ. Contam. Toxicol.</i> 19:913, 1990
Mink	LOAEL	28-day	Survival	100 mg/kg-diet	22	HSDB, <i>Aulerich, et al., Arch Environ. Contam. Toxicol.</i> 19:913, 1990
Rat	LOAEL	2-year	Hepatic Lesions & Liver Weight	7 mg/kg-diet	0.57	IRIS, <i>Velsicol Chem. Co. MRID#00062599</i> , 1955
Rat	NOAEL	2-year	Hepatic Lesions & Liver Weight	5 mg/kg-diet	0.41	IRIS, <i>Velsicol Chem. Co. MRID#00062599</i> , 1955
Mouse	NOAEL	90-weeks	Survival	18 mg/kg-diet	3.1	HSDB, <i>IARC</i> , V20, 142, 1979
Mink	NOAEL	28-day	Loss of Body Weight	12.5 mg/kg-diet	2.75	HSDB, <i>Aulerich, et al., Arch Environ. Contam. Toxicol.</i> 19:913, 1990

Heptachlor Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Mink	NOAEL	28-day	Survival	50 mg/kg-diet	11	HSDB, Aulerich, <i>et al.</i> , Arch Environ. Contam. Toxicol. 19:913, 1990
23-day Old Quail (Bobwhite)	Body Weight = (approx.)					Reference is USEPA, 1993, EPA/600/R-93/187a
23-day Old Quail (Bobwhite)	Food Consumption (based on all birds)					Reference is USEPA, 1993, EPA/600/R-93/187a
19-day Old Quail (Japanese)	Body Weight = (average)					Reference is USEPA, 1993, EPA/600/R-93/187a
19-day Old Quail (Japanese)	Food Consumption (based on all birds)					Reference is USEPA, 1993, EPA/600/R-93/187a
10-day Old Mallard	Food Consumption (based on all birds)					Reference is USEPA, 1993, EPA/600/R-93/187a
Mature Mink	Body Weight = (average male & female)					Reference is USEPA, 1993, EPA/600/R-93/187a
Mature Mink	Food Consumption = (average male & female)					Reference is USEPA, 1993, EPA/600/R-93/187a
Mature Rat	Body Weight = (average male & female)					Reference is USEPA, 1987, EPA/600/6-87/008
Mature Rat	Food Consumption = (average male & female)					Reference is USEPA, 1987, EPA/600/6-87/008
Mature Mouse	Body Weight (B6C3F1) (average male & female)					Reference is USEPA, 1987, EPA/600/6-87/008
Mature Mouse	Food Consumption (B6C3F1) (average male & female)					Reference is USEPA, 1987, EPA/600/6-87/008

Heptachlor Epoxide Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Dog (Beagle)	LOAEL	60-week	Liver Weight	0.5 mg/kg-diet	0.016	IRIS, Dow Chem. Co., 1958
Calf	LOAEL	11-week	Kidney Damage	50 mg/kg-diet		HSDB, Clarke, <i>et al.</i> , Veterinary Toxicology, 2Ed, 1981
Rat	LOAEL	2-year	Liver Histopathology		0.025	IRIS, Velnicol Chem. Co., 1959
Dog	LOAEL	2-generation	Pup Survival		0.175	IRIS, Velnicol Chem. Co., 1973
Rat	LOAEL	3-generation	Pup Survival		0.5	IRIS, Velnicol Chem. Co., 1973
Mouse (male)	NOAEL	Single Dose	Reproduction		15	HSDB, IARC, V20, 144, 1979
Calf	NOAEL	100-day	No Harmful Effects		0.2	HSDB, Clarke, <i>et al.</i> , Veterinary Toxicology, 2Ed, 1981
Rat	NOAEL	2-year	Cataracts	12.5 mg/kg-diet	1.02	HSDB, Hayes, Pesticides Studies in Man, Williams & Walker Ed.s, 1982
Dog	NOAEL	2-year	Cataracts	12.5 mg/kg-diet	0.39	HSDB, Hayes, Pesticides Studies in Man, Williams & Walker Ed.s, 1982
Dog	NOAEL	2-generation	Reproduction		0.125	IRIS, Velnicol Chem. Co., 1973
Rat	NOAEL	3-generation	Reproduction		0.25	IRIS, Velnicol Chem. Co., 1973
Rat	NOAEL	3-generation	Reproduction	7 mg/kg-diet	0.57	IRIS, Velnicol Chem. Co., 1967

Mature Rat Body Weight (Average male & female) = 0.325 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Rat Food Consumption (Average male & female) = 0.0265 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Dog Body Weight (Average male & female) = 14 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Dog Food Consumption (Average male & female, moist diet) = 0.435 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008

Iron Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		30000	RTECS, <i>Ind. J. Pharmacy</i> 13:240, 1951
Rat	LD ₅₀	Single Dose	Mortality		319	RTECS, <i>J. Pediatrics</i> , 69:663, 1966
Rat	LD ₅₀	Single Dose	Mortality		450	RTECS, <i>Gigiena & Sanitariyu</i> , 39:16, 1974
Mouse	LD ₅₀	Single Dose	Mortality		895	RTECS, <i>Annual Rpt. Tokyo, Metro. Res. Lab. Public Health</i> , 27:159, 1976
Mouse	LD ₅₀	Single Dose	Mortality		680	British J. Pharmacol. Chemo., 24:352, 1965
Guinea Pig	LD ₅₀	Single Dose	Mortality		20000	RTECS, <i>Ind. J. Pharmacy</i> 13:240, 1951
Guinea Pig	LD ₅₀	Single Dose	Mortality		1200	<i>Clinical Pediatrics</i> , 5:485, 1966
Rabbit	LDLo	Single Dose	Mortality		890	RTECS, <i>Env. Qual. Saf. Suppl.</i> , 1:1, 1975
Rat	LOAEL	6-Day (gestation)	Fetotoxicity	7200 mg/kg-Total Dose	1200	RTECS, <i>Yakuri, Pharmacometrics</i> , 17:483, 1979

Lead Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Cattle	LD ₅₀	Single Dose	Mortality		600-800	USEPA, EPA-600/3-77-009, 1977
Calf	LD ₅₀	Single Dose	Mortality		200-400	USEPA, EPA-600/3-77-009, 1977
Cattle	LD ₁₆	69-day	Mortality		5	USEPA, EPA-600/3-77-009, 1977
Cattle	LD ₁₀	Chronic	Mortality		6	USEPA, EPA-600/3-77-009, 1977
Dog	LD ₁₀	2-day	Mortality		600	USEPA, EPA-600/3-77-009, 1977
Mallard	LD ₅₀	Single Dose (20-day)	Mortality	6000 mg-total dose	5291	Eisler, 1988
Mallard	LD ₅₀	Single Dose	Mortality		107	Eisler, 1988
Quail	LD ₅₀	Single Dose	Mortality		24.6	Eisler, 1988
Duck	LD ₁₀	25-day	Mortality		8 to 12	USEPA, EPA-600/3-77-009, 1977
Pigeon	LD ₁₀	Single Dose	Mortality		160	RTECS, Abdermaldeen's Handbuch Biologischen Arb. 4:1289, 1935
Starling	LD ₁₀₀	11-day	Mortality		28	Eisler, 1988
Sheep	LOAEL	106-day	Fetotoxicity		1 to 9	USEPA, EPA-600/3-77-009, 1977
Dog	LOAEL	180-day	Symptomatic Lead Poisoning		3	USEPA, EPA-600/3-77-009, 1977
Dog	LOAEL	Not Reported	Symptomatic Lead Poisoning	100 mg/kg-diet	38	USEPA, EPA-600/3-77-009, 1977
Rat	LOAEL	56-day (incl. gestation)	Offspring Behavior	1140 mg/kg-total dose	20	RTECS, Pharmacologist, 20:201, 1978
Rat	LOAEL	22-day (gestation)	Developmental Abnormalities	1100 mg/kg-total dose	50	RTECS, Fed. Am. Soc. Exper. Biol (Proc.) 37:895, 1978
Mouse	LOAEL	21-day (gestation)	Effects on Fertility	6300 mg/kg-total dose	300	RTECS, Experimentia, 31:1312, 1975
Mouse	LOAEL	1 to 2-day (gestation)	Effects on Fertility	300 mg/kg-total dose	150	RTECS, Toxicology 6:129, 1976
Poultry	LOAEL	4-week	Growth	1000 mg/kg-diet	48	USEPA, EPA-600/3-77-009, 1977
Rock Dove	LOAEL	64-week	Anemia, Learning Effects, Kidney		6.25	Eisler, 1988
Am. Kestrel (nestlings)	LOAEL	10-day	Growth		125	Eisler, 1988
Bald Eagle	LOAEL	Single Dose	Blindness, Growth	2000 mg-total dose	0.4	Eisler, 1988
Willow Ptarmigan	LOAEL	Single Dose	Weight Loss	100 mg-total dose		Eisler, 1988
Sheep	NOAEL	45-days	No Effects		5	USEPA, EPA-600/3-77-009, 1977
Sheep	NOAEL	26-week	No Effects		4.5	USEPA, EPA-600/3-77-009, 1977

Lead Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Sheep	NOAEL	30-day	No Effects		100	USEPA, EPA-600/3-77-009, 1977
Poultry	NOAEL	4-week	No Effects	100 mg/kg-diet	4.8	USEPA, EPA-600/3-77-009, 1977
Poultry	NOAEL	35-day	No Effects		160	USEPA, EPA-600/3-77-009, 1977
Mallard	LOAEL	12-week	No Adverse Effects	25 mg/kg-diet	1.4	Eisler, 1988
Duck	NOAEL	137-day	No Effects		6	USEPA, EPA-600/3-77-009, 1977
Quail	NOAEL	5-day	No Effects	5000 mg/kg-diet	16	Eisler, 1988
Am. Kestrel	NOAEL	5-month	No Effects	10 mg/kg-diet	3	Eisler, 1988
Am. Kestrel	NOAEL	5-month	No Effects	50 mg/kg-diet	14.5	Eisler, 1988
Turtle Dove	NOAEL	2-weeks	Egg Production, Fertility	0.1 mg/L (water)		Eisler, 1988

Mature Mallard Body Weight (average male & female) = 1.134 kg, Reference is USEPA, 1993, EPA/600/R-93/187a

Mature Dog Body Weight (average male & female) = 14 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Dog Food Consumption (average male & female) = 0.435 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008

Average Rat Gestation Period = 21 days, Reference is USEPA, 1987 EPA/600/6-87/008

Assumed Poultry as a Chicken Body Weight = 1.7 kg, Reference in USEPA, 1987 EPA/600/6-87/008

Bird Food Ingestion (based on all birds) = 0.0582 x BW(kg)^{0.651}, Reference is USEPA 93, EPA/600/R-93/187a

Mature Bald Eagle Body Weight (average male & female) = 4.551 kg, Reference is USEPA, 1993, EPA/600/R-93/187a

No Quail age was provided, assumed "young" i.e. 10-day, baby weight at 10-day averages 0.0115 kg (EPA 600/R-93/187a)

Mature Kestrel Body Weight (average male & female) = 0.116 kg, Reference is USEPA, 1993, EPA/600/R-93/187a

Mature Kestrel Food Consumption (seasonal average) = 0.29 g/g-BW, Reference is USEPA, 1993, EPA/600/R-93/187a

Manganese Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		250 to 275	RTECS, WHO, Environ. Health Crit. Mn, 1981
Guinea Pig	LD ₅₀	Single Dose	Mortality		400 to 810	RTECS, WHO, Environ. Health Crit. Mn, 1981
Mouse	LD ₅₀	Single Dose	Mortality		275 to 450	RTECS, WHO, Environ. Health Crit. Mn, 1981
Rat	LOAEL	Not Reported	Growth	1.75 %-diet	1.43E+05	HSDB, Venugopal & Luckey, Metal Tox. Mammals, 1978
Rat	LOAEL	Not Reported	Growth	600 mg/kg-diet	48.9	HSDB, Clayton & Clayton, Patty's Ind. Hyg. Toxicol. Vol2, 1982
Rat (weaning)	NOAEL	1-month (parental)	Histology		4.1	HSDB, Friberg, et al., Handbook Toxicol. Metals, 1979
Rat	NOAEL	Not Reported	Growth (enhancement)	100 mg/kg-diet	8.2	HSDB, Clayton & Clayton, Patty's Ind. Hyg. Toxicol. Vol2, 1982
Rat	NOAEL	Gestation & Lactation	Development	1004 mg/kg-diet	81.9	HSDB, Venugopal & Luckey, Metal Tox. Mammals, 1978

Mature Rat Body Weight (average male & female) = 0.325 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Rat Food Consumption (average male & female) = 0.0265 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008

Mercury Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Mallard (A)	LD ₅₀	Single Dose	Mortality		2 to 23	Eisler, 1987
Mallard (B)	LD ₅₀	Single Dose	Mortality		76	Eisler, 1987
Mallard (C)	LD ₅₀	Single Dose	Mortality		525	Eisler, 1987
Whistling Duck (A)	LD ₅₀	Single Dose	Mortality		38	Eisler, 1987
Chicken (B)	LD ₅₀	Single Dose	Mortality		60	Eisler, 1987
Bobwhite (A)	LD ₅₀	Single Dose	Mortality		24	Eisler, 1987
Quail (A)	LD ₅₀	Single Dose	Mortality		11 to 27	Eisler, 1987
Quail (D)	LD ₅₀	Single Dose	Mortality		26 to 54	Eisler, 1987
Japanese Quail (A)	LD ₅₀	Single Dose	Mortality		14 to 34	Eisler, 1987
Japanese Quail (B)	LD ₅₀	Single Dose	Mortality		21.4	Eisler, 1987
Japanese Quail (D)	LD ₅₀	Single Dose	Mortality		31.1	Eisler, 1987
Grey Partridge (B)	LD ₅₀	Single Dose	Mortality		17.6	Eisler, 1987
House Sparrow (A)	LD ₅₀	Single Dose	Mortality		12.6 to 37.8	Eisler, 1987
Pheasant (A)	LD ₅₀	Single Dose	Mortality		11.5 to 26.8	Eisler, 1987
Pheasant (B)	LD ₅₀	Single Dose	Mortality		12	Eisler, 1987
Pheasant (C)	LD ₅₀	Single Dose	Mortality		65 to 101	Eisler, 1987
Prairie Chicken (B)	LD ₅₀	Single Dose	Mortality		12	Eisler, 1987
Mule Deer (E)	LD ₅₀	Single Dose	Mortality		17.88	Eisler, 1987
Quail (D)	LD ₅₀	5-day	Mortality	2956 to 5066 mg/kg-diet	817.0	Eisler, 1987
Pheasant (B)	LD ₅₀	15-day	Mortality	112 mg/kg-diet	112	Eisler, 1987
Pheasant (B)	LD ₅₀	28-day	Mortality	37.4 mg/kg-diet	37.4	Eisler, 1987
Pheasant (B)	LD ₅₀	70-day	Mortality	12.5 mg/kg-diet	12.5	Eisler, 1987
Quail (A)	LD ₁₀	5-day	Mortality	8 mg/kg-diet	7.4	Eisler, 1987
Mink (E)	LD ₁₀₀	2-month	Mortality	1 mg/kg-diet	0.07	Eisler, 1987
Mink (E)	LD ₁₀₀	30 to 37-day	Mortality	5 mg/kg-diet	0.35	Eisler, 1987
Otter (E)	LD ₁₀₀	Not Reported	Mortality	> 2 mg/kg-diet	0.105	Eisler, 1987
Chicken (A)	LOAEL	Not Reported	Growth	500 mg/L (water)	24.8	Eisler, 1987
Mallard (A)	LOAEL	3-generation	Reduced Fertility, Behavioral	0.1 mg/kg-diet	0.06	Eisler, 1987
Black Duck (A)	LOAEL	28-week	Reproduction	3 mg/kg-diet	0.167	Eisler, 1987

Mercury Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Grey Pheasant (A)	LOAEL	30-day	Reproduction		0.64	Eisler, 1987
Dog (E)	LOAEL	Gestation	Fetotoxicity		0.1 to 0.25	Eisler, 1987
Cat (E)	LOAEL	90-day	Survival, Convulsions		0.25	Eisler, 1987
Pig (E)	LOAEL	Gestation	Fetotoxicity		0.5	Eisler, 1987
Monkey (E)	LOAEL	10-day (gestation)	Fetotoxicity		0.5	Eisler, 1987
Cat (E)	LOAEL	10 to 58-day (gestation)	Developmental Abnormalities		0.25	Eisler, 1987
Rat (E)	LOAEL	Not Reported	Reduced Fertility		0.50	Eisler, 1987
Quail (A)	NOAEL	Hatch to 9-week	Survival	32 mg/kg-diet	5.1	Eisler, 1987
Quail (D)	NOAEL	Hatch to 9-week	Survival	4 mg/kg-diet	0.64	Eisler, 1987
Pheasant (B)	NOAEL	70-day	Survival	4.2 mg/kg-diet	0.42	Eisler, 1987
Chickens (A)	NOAEL	Not Reported	Clinical Signs	0.05 mg/kg-diet	0.002	Eisler, 1987
Monkey (E)	NOAEL	20 to 30-day (gestation)	Reproduction		0.016	Eisler, 1987

A = Methylmercury
 B = Ethylmercury
 C = Phenylmercury
 D = Inorganic
 E = Unspecified Organo-mercury

Chicken Body Weight (mature) = 1.7 kg, Reference in USEPA, 1987 EPA/600/6-87/008
 Mature Mallard (also used for Black Duck) Body Weight (average male & female) = 1.134 kg, Reference is USEPA, 1993, EPA/600/R-93/187a
 No Quail age was provided, assumed "young" i.e. 10-day, body weight at 10-day averages 0.0115 kg (EPA 600/R-93/187a)
 Bird Food Ingestion (based on all birds) = 0.0582 x BW(kg)^{0.67}, Reference is USEPA 93, EPA/600/R-93/187a
 Mature Pheasant body weight = 1 kg Reference is USEPA, 1993
 Bird Water Ingestion (based on all birds) = 0.059 x BW(kg)^{0.67}, Reference is USEPA 93, EPA/600/R-93/187a
 Bobwhite Body Weight (average from hatch to 9-weeks) = 0.0564 kg, Reference is USEPA, 1993, EPA/600/R-93/187a
 Mature Mink Body Weight (average male & female) = 1.85 kg, Reference is USEPA, 1993, EPA/600/R-93/187a
 Mature Mink Food Ingestion (average male & female) = 0.13 g/g-BW/day, Reference is USEPA, 1993, EPA/600/R-93/187a
 Mature Otter Body Weight (average male & female) = 10 kg, Reference is USEPA, 1993, EPA/600/R-93/187a
 Mature Otter Food Ingestion (based on all mammals) = 0.0687 x BW(kg)^{0.67} g/g-BW/day, Reference is USEPA, 1993, EPA/600/R-93/187a

Methoxychlor Oral Toxicity

Test Species	Endpoint Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀ Single Dose	Mortality		6000	HSDB, Worthing & Walker (Ed.s) The Pesticide Manual, 8th Ed., 1987
Rat	LD ₅₀ Single Dose	Mortality		1855	RTECS, Giginca i Sanitariya 58:44, 1993
Mouse	LD ₅₀ Single Dose	Mortality		510	RTECS, Giginca i Sanitariya 58:44, 1993
Rabbit	LD ₅₀ Single Dose	Mortality		> 6000	RTECS, Special Publ. Entom. Soc. Am. 78-1:16, 1978
Rabbit	LD ₁₀₀ 4 to 5 doses	Mortality		200	HSDB, DHHS(NIOSH) 81-123, 1981
Dog	LD ₁₀ 9-week	Mortality	2000 mg/kg-diet	62	HSDB, Thienes & Haley, Clinical Toxicology, 5th Ed., 1972
Dog	LOAEL 2-year	Tremors & Convulsions	2000 mg/kg-diet	62	HSDB, IARC V20 269, 1979
Dog	LOAEL 24-month	Growth	1000 mg/kg-diet	31	HSDB, Stein, Ind. Med. Surg. 37:540, 1966
Monkey	LOAEL 2-year	Liver & Intestinal Damage	400 mg/kg-diet	15.8	HSDB, IARC V20 269, 1979
Rat (male)	LOAEL 70-day	Infertility		100	HSDB, IARC V20 269, 1979
Rat	LOAEL Gestation	Reduced Fertility	1000 mg/kg-diet	88	HSDB, IARC V20 269, 1979
Rat	LOAEL 10-day (gestation)	Fetotoxicity	200 mg/kg-diet	17.6	HSDB, Shepard, Catalog Teratogenic Agents 5th Ed., 1986
Rat	LOAEL 10-day (gestation)	Fetotoxicity	2 g/kg-total dose	200	RTECS, Toxicol. Appl. Pharm. 45:435, 1978
Rat	LOAEL 10-day (gestation)	Abnormal Development	2 g/kg-total dose	200	RTECS, Toxicol. Appl. Pharm. 45:435, 1978
Rat	LOAEL 63-day	Reproductive Effects	4.25 g/kg-total dose	67.5	RTECS, J. Agric. Food Chem. 22:969, 1974
Mouse	LOAEL 20-day (gestation)	Reproductive Effects	1 g/kg-total dose	50	RTECS, Reprod. Toxicol. 5:139, 1991
Mouse	LOAEL 3-day (gestation)	Reproductive Effects	900 mg/kg-total dose	300	RTECS, Reprod. Toxicol. 6:431, 1992
Rabbits	LOAEL 13-day (gestation)	Reproductive Effects		35.5	IRIS, Kincaid Enterprises, EPA MRID#0015992
Rat	NOAEL 27-month	Survival	1000 mg/L-water	134	HSDB, IARC V5 197, 1974
Mallard	NOAEL Single Dose	Survival	2000 mg/kg-diet	115	HSDB, US Fish Wild., Handbook Tox. Pest. Wildlife 1970
Dog	NOAEL 2-year	Tremors & Convulsions	1000 mg/kg-diet	31	HSDB, IARC V20 269, 1979
Rat	NOAEL 10-day (gestation)	Reproduction	50 mg/kg-diet	4.4	HSDB, Shepard, Catalog Teratogenic Agents 5th Ed., 1986
Rat	NOAEL 2-year	Clinical Toxicity		10	IRIS, Hodge et al., 1952
Bobwhite Quail	NOAEL 5-day	Survival	5000 mg/kg-diet	989	US Fish Wildlife SSR Wildlife #191, 1975

Methoxychlor Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Japanese Quail	NOAEL	5-day	Survival	5000 mg/kg-diet	1219	US Fish Wildlife SSR Wildlife #191, 1975
Pheasant	NOAEL	5-day	Survival	5000 mg/kg-diet		US Fish Wildlife SSR Wildlife #191, 1975
Mallard	NOAEL	5-day	Survival	5000 mg/kg-diet	479	US Fish Wildlife SSR Wildlife #191, 1975
Rabbits	NOAEL	13-day (gestation)	Reproductive Effects		5.01	IRIS, Kincaid Enterprises, EPA MRID#0015992
23-day old Quail Body Weight = 25 to 35 g (average = 0.030 kg) Reference is USEPA, 1993, EPA/600/R-93/187a						
14-day old Quail Body Weight = 13 to 20 g (average = 0.0165 kg), Reference is USEPA, 1993 EPA/600/R-93/187a						
3 to 4 month old female Mallard Body Weight = 1.043 kg, Reference is USEPA, 1993 EPA/600/R-93/187a						
16-day old Mallard Body Weight = 215 to 265 g (average = 0.240 kg), Reference is USEPA, 1993 EPA/600/R-93/187a						
Bird Food Ingestion (based on all birds, kg/day) = 0.0582 x Body Weight (kg) ^{0.651} Reference is USEPA, 1993 EPA/600/R-93/187a						
Mature Dog Body Weight (Average male & female) = 14 kg, Reference is USEPA, 1987 EPA/600/6-87/008						
Mature Dog Food Consumption (Average male & female, moist diet) = 0.435 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008						
Mature Rat Body Weight (Average male & female) = 0.325 kg, Reference is USEPA, 1987 EPA/600/6-87/008						
Mature Rat Water Consumption (Average male & female) = 0.0435 L/day, Reference is USEPA, 1987 EPA/600/6-87/008						
Female Mature Rat Body Weight = 0.25 kg, Reference is USEPA, 1987 EPA/600/6-87/008						
Female Mature Rat Food Consumption = 0.022 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008						
Mature Monkey Body Weight (Average male & female) = 10.5 kg, Reference is USEPA, 1987 EPA/600/6-87/008						
Mature Monkey Food Consumption (Average male & female) = 0.415 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008						

Methylene Chloride Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		1600	RTECS, FAO Rpt. Series 48a:94, 1970
Rabbit	LD ₁₀	Single Dose	Mortality		1900	RTECS, Handbook of Toxicology, Saunders Co., 1:94, 1955
Dog	LD ₁₀	Single Dose	Mortality		3000	RTECS, Quart. J. Pharm. Pharmacol. 7:205, 1934
Mouse	LOAEL	104-week	Liver Damage		250	HSDB, Serota, <i>et al.</i> , Food Chem. Toxicol. 24(9):959, 1986
Rat	LOAEL	90-day	Liver Damage		166	ASTDR, 1992
Rat	LOAEL	90-day	Liver Damage		55	ASTDR, 1992
Mouse	LOAEL	90-day	Liver Damage		587	ASTDR, 1992
Rat	LOAEL	90-day	Liver Histopathology		1200	ASTDR, 1992
Rat	LOAEL	24-month	Liver Histopathology		50	IRIS, Hazelton Lab., Vienna, VA, 1982 (unpubl)
Rat	LOAEL	104-week	Decreased Body Weight		131	ASTDR, 1992
Mouse	NOAEL	24-month	Multiple Histo & Growth		250	HSDB, EPA 45-8303005, 1983
Rat	NOAEL	18-week	Reproduction & Growth		225	HSDB, EPA 878210710 (OTS0205887)
Mouse	NOAEL	104-week	Liver Histopathology		185	HSDB, Serota, <i>et al.</i> , Food Chem. Toxicol. 24(9):959, 1986
Rat	NOAEL	24-month	Liver Histopathology		5	IRIS, Hazelton Lab., Vienna, VA, 1982 (unpubl)

Molybdenum Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		100 to 150	
Cattle	LD ₁₀	Single Dose	Mortality		10	Eisler, 1989
Guinea Pig	LD ₇₅	Chronic	Mortality		25 as MoO ₃	Eisler, 1989
Guinea Pig	LD ₇₅	Chronic	Mortality		200 as CaMo	Eisler, 1989
Chicks	LOAEL	Not Reported	Slight Inhibition of Growth	200 mg/kg-diet	29	Eisler, 1989
Chicken	LOAEL	4-week	Fetotoxicity	500 mg/kg-diet	24	Eisler, 1989
Turkey	LOAEL	Not Reported	Decreased Growth	300 mg/kg-diet		Eisler, 1989
Cattle	LOAEL	84-week	Fertility Effects	5 mg/kg-diet (A)	0.1	Eisler, 1989
Cattle	LOAEL	Not Reported	Weight Loss	500 mg-daily intake	2.1	Eisler, 1989
Mule Deer	LOAEL	15-day	Diarrhea, Reduced Food Intake	5000 mg/kg-diet		Eisler, 1989
Mouse	LOAEL	Not Reported	Reduced Offspring Survival	10 mg/L (water)	0.3	Eisler, 1989
Rabbit	LOAEL	Lifetime	Growth, Deformities	100 mg/kg-diet	3	Eisler, 1989
Rabbit	LOAEL	Lifetime	Growth, Male Sterility	100 mg/kg-diet	3	Eisler, 1989
Chicks	NOAEL	Not Reported	Slight Inhibition of Growth	200 mg/kg-diet	29	Eisler, 1989
Horse	NOAEL	4.5-month	Clinical Signs	20 mg/kg-diet		Eisler, 1989
Horse	NOAEL	14-day	Clinical Signs	107 mg/kg-diet		Eisler, 1989
Cattle	NOAEL	21-day	Growth	50 mg/L (water)	1	Eisler, 1989
Rabbit	NOAEL	12-week	Clinical Signs	500 mg/kg-diet	15	Eisler, 1989
Pig	NOAEL	3-month	Clinical Signs	1000 mg/kg-diet	30	Eisler, 1989
Mule Deer	NOAEL	33-day	No Effects	200 mg/kg-diet		Eisler, 1989

A = Diet also contained 4 mg/kg copper

Molybdenum Oral Toxicity

Chick Body Weight estimated at an age of 7 days = 0.073 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Chicken Body Weight (mature female) = 1.7 kg, Reference in USEPA, 1987 EPA/600/6-87/008

Chick/Chicken Food Ingestion (based on all birds) = $0.0582 \times \text{BW}(\text{kg})^{0.651}$, Reference is USEPA 93, EPA/600/R-93/187a

Average Cattle Body Weight = 239 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Cattle Food Ingestion (based on all animals) = $0.065 \times \text{BW}(\text{kg})^{0.7919}$, Reference is USEPA, 1987, EPA/600/6-87/008

Cattle Water Ingestion (based on all animals) = $0.11 \times \text{BW}(\text{kg})^{0.772}$, Reference is USEPA, 1987, EPA/600/6-87/008

Mature Rabbit Body Weight = 4 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Rabbit Food Ingestion = 0.12 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008

Average Pig Body Weight = 40 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Pig Food Ingestion (based on all animals) = $0.065 \times \text{BW}(\text{kg})^{0.7919}$, Reference is USEPA, 1987, EPA/600/6-87/008

Chlorinated Naphthalenes Oral Toxicity

	Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
(B)	Rat (male)	LD ₅₀	Single Dose	Mortality		1540	HSDB, ITH Toxic Haz. Indust. Chem. Saf. Man. Tokyo, Inter. Info. Instit..., 1988
(B)	Mouse	LD ₅₀	Single Dose	Mortality		1091	HSDB, ITH Toxic Haz. Indust. Chem. Saf. Man. Tokyo, Inter. Info. Instit..., 1988
(B)	Guinea Pig	LD ₅₀	Single Dose	Mortality		2000	RTECS, Gigena i Sanitariya 47:78, 1982
(C)	Rat	LD ₅₀	Single Dose	Mortality		2078	RTECS, Aerospace Med. Res. Lab. Rpt. TR-72-62, 72
(C)	Mouse	LD ₅₀	Single Dose	Mortality		886	RTECS, NTIS PB214-270
(E)	Pig	LD _{Lo}	8 to 9-day	Mortality		176-220	HSDB, Health & Welfare Canada, Chloronaphthalenes, 83-EHD-96
(A)	Rat (Wistar)	LOAEL	Not Reported	Organ Weight	2% in diet	1488	HSDB, Kawano, et al., Tokyo-Toritsu Eisei Kenkyusho Kenkyu Nempo 30:116, 1979
(E)	Rat	LOAEL	30-day	Survival, Growth, Liver Weight		3	HSDB, Pary's Indust. Hyg & Toxicol., 1982
(C)	Mouse	LOAEL	13-week	Organ Weight		600	IRIS, Hazelton Lab.s, Office of Solid Waste HLA Study#2399-124, 1989
(E)	Sheep	LOAEL	106-day	Liver, Heart, Renal Disease	117 mg/day	2.45	HSDB, Health & Welfare Canada, Chloronaphthalenes, 83-EHD-96
(C)	Mouse	NOAEL	13-week	Organ Weight		250	IRIS, Hazelton Lab.s, Office of Solid Waste HLA Study#2399-124, 1989
(D)	Calf	NOAEL	7-10-day	Clinical Signs		16 to 26	HSDB, Am. Conf. Gover. Indust. Hyg. 1986, 600
A =	Tetrachloronaphthalene						
B =	1-Chloronaphthalene						
C =	2-Chloronaphthalene						
D =	Trichloronaphthalene						
E =	Hexachloronaphthalene						

Mature Wistar Rat Body Weight (Average male & female) = 0.41 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Mature Wistar Rat Food Consumption (Average male & female) = 0.0305 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008

Average Sheep Body Weight = 47.75 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Nickel Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		5000	RTECS, Food Drug Res, Inc., Papers 7684D, 83
	LD ₁₀	Single Dose	Mortality		5000	RTECS, Pharmaco. Monthly, 22:445, 1980
	LD ₁₀	Single Dose	Mortality			
Guinea Pig	LOAEL	90-day	Growth, Organ Weight		35	IRIS, ABC Laboratories, 1986
	LOAEL	2-year	Growth, Organ Weight		50	IRIS, Ambrose, et al., F. Sci Technol. 13:181, 1976
	LOAEL	2-year	Growth		63	IRIS, Ambrose, et al., F. Sci Technol. 13:181, 1976
	LOAEL	3-generation	Increased Mortality of Newborns	5 mg/L (water)	0.67	HSDB, Frigberg, et al., Handbook Toxicol. Metals, 2 Ed., Vol 1&2, 1986
Rat	NOAEL	2-year	Growth, Organ Weight		5	IRIS, Ambrose, et al., F. Sci Technol. 13:181, 1976
Rat	NOAEL	90-day	Growth, Organ Weight		5	IRIS, ABC Laboratories, 1986
Dog	NOAEL	2-year	Growth		25	IRIS, Ambrose, et al., F. Sci Technol. 13:181, 1976
Dog	NOAEL	100 to 200-day	No Adverse Effects		6 to 12	HSDB, Browning, Toxic. Indust. Metals, 2Ed., 1989

Mature Rat Body Weight (average male & female) = 0.325 kg, Reference is USEPA, 1987 EPA/600/6-87/008
Mature Rat Water Consumption (average male & female) = 0.0433 L/day, Reference is USEPA, 1987 EPA/600/6-87/008

Nonylphenol Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		600	OHM/TADS
Rat	LD ₅₀	Single Dose	Mortality		1620	RTECS, Union Carbide Data Sheet 6/9/59
Mouse	LD ₅₀	Single Dose	Mortality		1231	RTECS, NTIS AD-A067-313

Pentachlorophenol Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Mallard	LD ₅₀	Single Dose	Mortality		380	HSDB, USFWS, Resource Publication 153
Pheasant	LD ₅₀	Single Dose	Mortality		504	HSDB, USFWS, Resource Publication 153
Japanese Quail	LD ₅₀	Single Dose	Mortality		5139	HSDB, USFWS, Resource Publication 153
Mouse	LD ₅₀	Single Dose	Mortality	3.85 mg/mouse	118.5	
Rat (male)	LD ₅₀	Single Dose	Mortality		146	Merck Index, Merck & Co., 1989
Rat (male)	LD ₅₀	Single Dose	Mortality		175	Merck Index, Merck & Co., 1989
Rat	LD ₅₀	Single Dose	Mortality		210	HSDB, Hartley & Kidd, 1987
Rabbit	LD ₅₀	Single Dose	Mortality		70 to 130	OHM/TADS
Eastern Chipmunk	LD ₅₀	Single Dose	Mortality		135	Eisler, 1989
Guinea Pig	LD ₅₀	Single Dose	Mortality		80 to 160	OHM/TADS
Dog	LD ₅₀	Single Dose	Mortality		150 to 200	Eisler, 1989
Bobwhite Quail	LD ₅₀	5-day	Mortality	3400 mg/kg-diet	946	HSDB, USFWS, Resource Publication 153
Japanese Quail	LD ₅₀	5-day	Mortality	5204 mg/kg-diet	1133	HSDB, USFWS, Resource Publication 153
Pheasant	LD ₅₀	5-day	Mortality	4331 mg/kg-diet		HSDB, USFWS, Resource Publication 153
Mallard	LD ₅₀	5-day	Mortality	4500 mg/kg-diet	578	HSDB, USFWS, Resource Publication 153
Sheep	LD _{Lo}	Single Dose	Mortality		120	HSDB, Clark <i>et al.</i> , 1981
Calf	LD _{Lo}	Single Dose	Mortality		140	HSDB, Clark <i>et al.</i> , 1981
Rabbit	LD _{Lo}	Single Dose	Mortality		70	OHM/TADS
Pig	LD _{Lo}	Chronic Exposure	Mortality		27 to 55	Eisler, 1989
Rat	LOAEL	10-day (gestation)	Fetotoxicity		10	HSDB, IARC, V20:315, 1979
Rat	LOAEL	2-generation	Fetotoxicity		25	ASTDR, 1989
Hamster	LOAEL	5-day (gestation)	Fetotoxicity		5	HSDB, NRC Drinking Water and Health, Vol6:392, 1986
Cattle	LOAEL	160-day	Growth		15	HSDB, NRC Drinking Water and Health, Vol6:392, 1986
Rat	LOAEL	2-year	Growth		30	IRIS, Schwetz, <i>et al.</i> , 1978
Pig	LOAEL	7-day	Enlarged Liver		10	Eisler, 1989
Eastern Chipmunk	LOAEL	2-week	Enlarged Liver	250 mg/kg-diet		Eisler, 1989
Rat	NOEL	10-day (gestation)	Reproduction & Fetal Development		3	HSDB, IARC, V20:315, 1979

Pentachlorophenol Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	NOAEL	Not Reported	Fetal Development		15	HSDB, Schwetz, <i>et al.</i> , 1981
Rat	NOAEL	2-year	Growth		3	IRIS, Schwetz, <i>et al.</i> , 1978
Rat	NOAEL	2-generation	Maternal Toxicity		4	ASTDR, 1989
Cattle	NOAEL	70-day	Clinical Effects		10	Eisler, 1989
			Histopath., Hematol.,			
Mouse (female)	NOAEL	24-months	Organ Weights		3	Eisler, 1989
			Histopath., Hematol.,			
Mouse (male)	NOAEL	22-months	Organ Weights		10	Eisler, 1989
Rabbit	NOAEL	90-day	No Signs of Intoxication		3	Eisler, 1989
Hamster	NOAEL	5-day (gestation)	Fetotoxicity		2.5	HSDB, NRC Drinking Water and Health, Vol6:392, 1986
Pig	NOAEL	7-day	Weight Gain		15	Eisler, 1989

10-day old Quail Body Weight = 10 to 13 g (average = 11.5 g) Reference is USEPA, 1993, EPA/600/R-93/187a

20-day old Quail Body Weight = 20 to 25 g (average = 0.0115 kg), Reference is USEPA, 1993 EPA/600/R-93/187a

10-day old Mallard Body Weight = 92 to 115 g (average = 0.1305 kg), Reference is USEPA, 1993 EPA/600/R-93/187a

Bird Food Ingestion (based on all birds, kg/day) = 0.0582 x Body Weight (kg)^{0.651} Reference is USEPA, 1993 EPA/600/R-93/187a

Mature Mouse Body Weight (Average male & female) = 0.0325 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Phenol Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		530	Verschueren, Handbook Environ. Data Org. Chem. 2E4, 1983
Rat	LD ₅₀	Single Dose	Mortality		317	RTECS, Proc. Soc. Exper. Bio. Med. 32:592, 1935
Mouse	LD ₅₀	Single Dose	Mortality		270	RTECS, Gigiena i Sanitariya 38:6, 1973
Cat	LD ₅₀	Single Dose	Mortality		100	Verschueren, Handbook Environ. Data Org. Chem. 2E4, 1983
Dog	LD ₅₀	Single Dose	Mortality		500	Verschueren, Handbook Environ. Data Org. Chem. 2E4, 1983
Cat	LD _{Lo}	Single Dose	Mortality		80	RTECS, Abdermalen's Handbuch der Biologischen Arbeitsmethoden 4:1319, 1935
Rabbit	LD _{Lo}	Single Dose	Mortality		420	RTECS, J. Pharmacol. Exper. Ther. 80:233, 1944
Rat	LOAEL	10-day (gestation)	Reduced Fertility	300 mg/kg total dose	30	RTECS, NTIS PB83-247726
Rat	LOAEL	10-day (gestation)	Fetotoxicity	1200 mg/kg total dose	120	RTECS, NTIS PB83-247726
Mouse	LOAEL	10-day (gestation)	Reduced Fertility	2300 mg/kg total dose	230	RTECS, NTIS PB85-104461
Mouse	LOAEL	10-day (gestation)	Fetotoxicity	2600 mg/kg total dose	260	RTECS, NTIS PB85-104461
Mouse	LOAEL	10-day (gestation)	Fetotoxicity	2800 mg/kg total dose	280	RTECS, Internat. J. Abnormal Develop. 33:92c, 1986
Mouse	LOAEL	28-day	Hematology & Immune Response		174	RTECS, Europ. J. Pharmacol. 228:107, 1992
Rat	NOAEL	10-day (gestation)	Reproduction		60	ASTDR, 1989
Mouse	NOAEL	10-day (gestation)	Reproduction		140	ASTDR, 1989
Rat	NOAEL	103-week	Multiple Histopathology		624	ASTDR, 1989
Mouse	NOAEL	103-week	Multiple Histopathology		523	ASTDR, 1989

Low Molecular Weight Polycyclic Aromatic Hydrocarbon Oral Toxicity

PAH	Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Phenanthrene	Rodent	LD ₅₀	Single Dose	Mortality		700	Eisler, 1987
Naphthalene	Rodent	LD ₅₀	Single Dose	Mortality		1780	Eisler, 1987
Naphthalene	Rat	LD ₅₀	Single Dose	Mortality		2600	HSDb, Papciak & Mallory, J. Am. Coll. Toxicol. Pt. B, 1:17, 1990
Naphthalene	Rat (male)	LD ₅₀	Single Dose	Mortality		2200	HSDb, USEPA, NTIS PB90-259821
Naphthalene	Rat (female)	LD ₅₀	Single Dose	Mortality		2400	HSDb, USEPA, NTIS PB90-259821
Naphthalene	Mouse (male)	LD ₅₀	Single Dose	Mortality		533	HSDb, USEPA, NTIS PB90-259821
Naphthalene	Mouse (female)	LD ₅₀	Single Dose	Mortality		710	HSDb, USEPA, NTIS PB90-259821
Naphthalene	Rat	LD ₅₀	Single Dose	Mortality		490	RTECS, Izmerov, et al., Moscow, Centre Internat. Projects, GKNT, 1982-89
Naphthalene	Mouse	LD ₅₀	Single Dose	Mortality		533	RTECS, Fundam. Appl. Toxicol. 4:406, 1984
Naphthalene	Guinea Pig	LD ₅₀	Single Dose	Mortality		1200	RTECS, Gijena i Sanitariya 47:78, 1982
Naphthalene	Rabbit	LD ₀	Single Dose	Mortality		3000	TECS, Abdermaliden's Handbuch der Biologischen Arbeitsmethoden, 4:1289, 193
Naphthalene	Dog	LD ₀	Single Dose	Mortality		400	TECS, Abdermaliden's Handbuch der Biologischen Arbeitsmethoden, 4:1289, 193
Naphthalene	Cat	LD ₀	Single Dose	Mortality		1000	TECS, Abdermaliden's Handbuch der Biologischen Arbeitsmethoden, 4:1289, 193
Naphthalene	Rabbit	LOAEL	2-week	Cataract		1000	HSDb, Amdur, et al., Casarett and Doull's Toxicology, 4th Ed., 1991
Naphthalene	Rabbit	LOAEL	3-doses (gestation)	Cataracts & Retinal Damage in Offspring		16	HSDb, Shepard, Catal. Terat. Agents, 5th Ed., 1986
Naphthalene	Mouse	LOAEL	14-day	Survival, Growth, Organ Weights		267	HSDb, USEPA, NTIS PB90-259821
Naphthalene	Mouse	LOAEL	9-day (gestation)	Fetotoxicity		300	HSDb, USEPA, NTIS PB90-259821
Phenanthrene	Mouse	LOAEL	13-week	Liver Function	6370 mg/kg-total dose	70	RTECS, Hyg. Sanit. 29:19, 1964
Dibenzofuran	Mouse	LOAEL	(gestation)	Reduced Offspring Growth		100	HSDb, Shepard, Catal. Terat. Agents, 5th Ed., 1986
Acenaphthalene	Rat	LOAEL	32-day	Growth, Liver & Kidney Histopathology		2000	HSDb, Knobloch, et al., Med. Pracy, 20:210, 1969
Flourene	Mouse	LOAEL	13-week	Hematological Effects		250	IRIS, Toxicity Research Lab.s LTD, USEPA, 1989
Acenaphthalene	Mouse	LOAEL	90-day	Liver Damage		350	IRIS, Hazleton Laboratory, USEPA, 1989
Naphthalene	Mouse	NOAEL	14-day	Survival, Growth, Organ Weights		53	HSDb, USEPA, NTIS PB90-259821
Naphthalene	Rat	NOAEL	13-week	Survival, Growth, Organ Weights	50mg/kg-5x week	36	HSDb, USEPA, NTIS PB90-259821
Naphthalene	Mouse	NOAEL	13-week	Survival, Growth, Organ Weights	200mg/kg-5x week	143	HSDb, USEPA, NTIS PB90-259821
Dibenzofuran	Mouse	NOAEL	(gestation)	Teratogenic Effects		100	HSDb, Shepard, Catal. Terat. Agents, 5th Ed., 1986
Flourene	Mouse	NOAEL	13-week	Clinical Signs		125	IRIS, Toxicity Research Lab.s LTD, USEPA, 1989
Anthracene	Mouse	NOAEL	90-day	Clinical Signs		1000	IRIS, Hazleton Laboratory, USEPA, 1989
Acenaphthalene	Mouse	NOAEL	90-day	Clinical Signs		175	IRIS, Hazleton Laboratory, USEPA, 1989
Low MW PAHs	Mallard	NOAEL	7-months	No Signs of Toxicity	4000 mg/kg-diet	223	Eisler, 1987

Adult Mallard Body Weight (Average male & female) = 1.134 kg Reference is USEPA, 1993 EPA/600/R-93/187a
 Bird Food Ingestion (based on all birds, kg/day) = 0.0582 x Body Weight (kg)^{0.851} Reference is USEPA, 1993 EPA/600/R-93/187a

Medium Molecular Weight Polycyclic Aromatic Hydrocarbon Oral Toxicity

PAH	Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Flouranthene	Rat	LD ₅₀	Single Dose	Mortality		2000	RTECS, Am. Indust. Hyg. Assoc. J. 23:95, 1962
Pyrene	Rat	LD ₅₀	Single Dose	Mortality		2700	RTECS, Labor Hyg. Prof. nye Zabolevaniya, Lab. Hyg. Occ. Die. 15:59, 1971
Pyrene	Mouse	LD ₅₀	Single Dose	Mortality		800	RTECS, Labor Hyg. Prof. nye Zabolevaniya, Lab. Hyg. Occ. Die. 15:59, 1971
9,10-Anthracenedione	Mouse	LD ₅₀	Single Dose	Mortality		>5000	RTECS, Pest. Msnual 9:37, 1991
9,10-Anthracenedione	Quail	LD ₅₀	Single Dose	Mortality		>2000	RTECS, Farm Chemicals Handbook, c23, 1991
Flouranthene	Mouse	LOAEL	13-week	Liver Pathology & Hematology		250	IRIS, Toxicity Res. Lab.s, USEPA, 1988
Pyrene	Mouse	LOAEL	13-week	Kidney Distuction & Histopathology		125	IRIS, Toxicity Res. Lab.s, USEPA, 1989
Flouranthene	Mouse	NOAEL	13-week	Liver Pathology & Hematology		125	IRIS, Toxicity Res. Lab.s, USEPA, 1988
Pyrene	Mouse	NOAEL	13-week	Kidney Distuction & Histopathology		75	IRIS, Toxicity Res. Lab.s, USEPA, 1989

High Molecular Weight Polycyclic Aromatic Hydrocarbon Oral Toxicity

PAH	Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Benzo(e)pyrene	Rodent	LD ₅₀	Single Dose	Mortality		50	Eisler, 1987
Benzo(a)anthracene	Hamster	LOAEL	Single Dose	Spermatogenesis	40 mg/kg-total dose	900	RTECS, Acta Morph. Acad. Scient. Hungaricae 27:199, 1979
Benzo(e)pyrene	Rat	LOAEL	14-day (gestation)	Developmental Malformations	2000 mg/kg-total dose	2.86	RTECS, Naunyn-Schmiedeberg's Arch. Of Pharmacol. 272:89, 1972
Benzo(a)pyrene	Rat	LOAEL	50-day (note A)	Fetotoxicity	1344 mg/kg-total dose	40	RTECS, Experimenta 20:244, 1964
Benzo(e)pyrene	Rat	LOAEL	41-day (Note B)	Live Birth Index	1000 mg/kg-diet	32.8	RTECS, DOE Symposium Series 54:410, 1981
Benzo(e)pyrene	Rat	LOAEL	Gestation (Note C)	Fetotoxicity	100 mg/kg-total dose	88	HSDB, Shephard, Catal. Teratog. Agents, 4th Ed., 1983
Benzo(a)pyrene	Mouse	LOAEL	42-day (Note D)	Reduced Fertility	100 mg/kg-total dose	2.4	RTECS, DOE Symposium Series 54:410, 1981
Benzo(e)pyrene	Mouse	LOAEL	10-day (gestation)	Delayed Effects on Newborn	100 mg/kg-total dose	10	RTECS, Internat. J. Abnormal Develop. 19:37a, 1979
Benzo(e)pyrene	Mouse	LOAEL	10-day (gestation)	Newborn Growth	100 mg/kg-total dose	10	RTECS, Biol. Reprod. 24:183, 1981
Benzo(e)pyrene	Mouse	LOAEL	10-day (gestation)	Sterility of Offspring		40	HSDB, Shephard, Catal. Teratog. Agents, 4th Ed., 1983
Benzo(a)pyrene	Duck (Note E)	LOAEL	Single Dose (intratracheal)	Survival	50 mg-total dose	44	HSDB, IARC, V3:109, 1973
Dibenz(a,h)anthracene	Pigeon	LOAEL	Single Dose (IM)	Histopathology (Tumors)		6	RTECS, J. Nat. Cancer Instit. 32:905, 1964
Benzo(a)pyrene	Rodent	NOAEL	Single Dose	Testicular Damage		100	Eisler, 1987
Benzo(e)pyrene	Mouse	NOAEL	10-day (gestation)	Offspring Body, Reproduction		10	HSDB, IARC, V32:214, 1983

Note A, dosing began 28 days prior to mating and continued through 22 days of pregnancy

Note B, dosing began 15 days prior to mating through 5 days after birth, assumed a gestation period of 21 days based on USEPA, 1987 Reference (EPA/600/6-87/008)

Note C, assume normal rat gestation = 21 day, adult female rat body = 0.25 kg, adult female food consumption = 0.022 kg/day EPA 600/6-89/008

Note D, dosing began 16 days prior to mating through 5 days after birth, assumed a gestation period of 21 days based on USEPA, 1987 Reference (EPA/600/6-87/008)

Note E, assume duck is an adult Mallard and intratracheal is equivalent to oral, Adult Mallard Body Weight = 1.134 kg EPA/600/R-93/187a

Polychlorinated Biphenyls (Aroclors 1254 & 1260) Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single dose (1254)	Mortality		500 - 1400	Eisler, 1986
Rat	LD ₅₀	Single dose (1254)	Mortality		1010	RTECS, Toxicol. Appl. Pharm. 60:33, 1981
Rat	LD ₅₀	Single dose (1260)	Mortality		1300 - 10000	Eisler, 1986
Mink	LD ₅₀	Single dose (1254)	Mortality		4000	Eisler, 1986
Mallard	LD ₅₀	Single dose (1254)	Mortality		> 2000	Eisler, 1986
Mallard	LD ₅₀	Single dose (1260)	Mortality		> 2000	Eisler, 1986
Bobwhite	LD ₅₀	5-day (1254)	Mortality	604 mg/kg-diet	167	Eisler, 1986
Bobwhite	LD ₅₀	5-day (1260)	Mortality	747 mg/kg-diet	207	Eisler, 1986
Japanese Quail	LD ₅₀	5-day (1254)	Mortality	2898 mg/kg-diet	706	Eisler, 1986
Japanese Quail	LD ₅₀	5-day (1260)	Mortality	2186 mg/kg-diet	533	Eisler, 1986
Mallard	LD ₅₀	5-day (1254)	Mortality	2699 mg/kg-diet	347	Eisler, 1986
Mallard	LD ₅₀	5-day (1260)	Mortality	1975 mg/kg-diet	254	Eisler, 1986
Pheasant	LD ₅₀	5-day (1254)	Mortality	1091 mg/kg-diet		Eisler, 1986
Pheasant	LD ₅₀	5-day (1260)	Mortality	1260 mg/kg-diet		Eisler, 1986
Starling	LD ₅₀	4-day (1254)	Mortality	1500 mg/kg-diet	1807	Eisler, 1986
Red Wing Blackbird	LD ₅₀	6-day (1254)	Mortality	1500 mg/kg-diet	1807	Eisler, 1986
Cowbird	LD ₅₀	7-day (1254)	Mortality	1500 mg/kg-diet	1807	Eisler, 1986
Mink	LD ₅₀	9-month (1254)	Mortality	6.7 mg/kg-diet	1.5	Eisler, 1986
White-footed mouse	LD ₅₀	3-week (1254)	Mortality	> 100 mg/kg-diet	19.5	Eisler, 1986
Raccoon	LD ₅₀	8-day (1254)	Mortality	> 50 mg/kg-diet	2.5	Eisler, 1986

Polychlorinated Biphenyls (Aroclors 1254 & 1260) Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Cottontail Rabbit	LD ₅₀	12-week (1254)	Mortality	> 10 mg/kg-diet	0.6	Eisler, 1986
Rat	LD ₅₀	8-month (1254)	Mortality	500 mg/kg-diet	40.8	EPA 440/5-80-068, 1980
Turtle Dove	LOAEL	3-month (1254)	Reproductive Effects	10 mg/kg-diet	12	Eisler, 1986
Mourning Dove	LOAEL	6-week (1254)	Reproductive Effects	10 mg/kg-diet	12	Eisler, 1986
Am. Kestrel	LOAEL	62-69-day (1254)	Spermatogenesis		9 to 10	Eisler, 1986
Chicken	LOAEL	Not Reported (1254)	Reduced Hatchability	20 mg/kg-diet	1.8	
Pheasant	LOAEL	Not Reported (1254)	Reduced Clutch Size	50 mg/week		Eisler, 1986
Mink	LOAEL	8-month (1254)	Reproductive Failure	2 mg/kg-diet	0.4	Eisler, 1986
Mink	LOAEL	4-month (1254)	Reproductive Failure	5 mg/kg-diet	1.1	Eisler, 1986
Rat (S/D)	LOAEL	10-gestation (1254)	Decreased Fetal Weight	900 mg/kg-diet	21.5	HSDB, Spencer, Bull. Environ. Contam. Toxicol. 28:270, 1982
Rat	LOAEL	10-day (gestation; 1254)	Reduced Pup Weights		100	ASTDR, 1989
Rat	LOAEL	2-generation (1254)	Reduced Litter Size		20	ASTDR, 1989
Rabbit	LOAEL	28-day (gestation; 1254)	Fetotoxicity		12.5	ASTDR, 1989
Monkey	LOAEL	Not Reported (1254)	Survival, Weight Loss		5	HSDB, Tryphonas, et al., Toxicol. Pathol. 12:10, 1984
Japanese Quail	NOAEL	Long-Term (1254)	Reproductive Effects	50 mg/kg-diet	3.9	Eisler, 1986
Bobwhite Quail	NOAEL	Long-Term (1254)	Reproductive Effects	50 mg/kg-diet	3.9	Eisler, 1986
Mallard	NOAEL	Long-Term (1254)	Reproductive Effects	25 mg/kg-diet	1.4	Eisler, 1986
Screech Owl	NOAEL	2-breeding seasons (1254)	Reproductive Effects	3 mg/kg-diet		Eisler, 1986

Polychlorinated Biphenyls (Aroclors 1254 & 1260) Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	NOAEL	8-month (1254)	Survival	200 mg/kg-diet	16.3	EPA 440/5-80-068, 1980
Rat	NOAEL	10-day (gestation; 1254)	Reproduction		50	ASTDR, 1989
Rat	NOAEL	2-generation (1254)	Reproduction Clinical Signs, Milk Production, Reproduction		5	ASTDR, 1989
Cow	NOAEL	180-day (1254)		1000 mg/day	3	HSDB, Willett, et al., Fundam. Appl. Toxicol. 9:60, 1987
Rabbit	NOAEL	28-day (gestation;1254)	Reproduction		10	ASTDR, 1989
10-day old Quail Body Weight = 10 to 13 g (average = 0.0115 kg) Reference is USEPA, 1993, EPA/600/R-93/187a						
14-day old Quail Body Weight = 13 to 20 g (average = 0.0165 kg), Reference is USEPA, 1993 EPA/600/R-93/187a						
10-day old Mallard Body Weight = 92 to 115 g (average = 0.1035 kg), Reference is USEPA, 1993 EPA/600/R-93/187a						
Red Winged Blackbird Body Weight = (mid-point in range) 0.05 kg Reference is Dunning, 1993						
Bird Food Ingestion (based on all birds, kg/day) = 0.0582 x Body Weight (kg) ^{0.651} Reference is USEPA, 1993 EPA/600/R-93/187a						
Adult Quail Body Weight = (average over seasons) = 0.191 kg Reference is USEPA, 1993, EPA/600/R-93/187a						
Adult Quail Food Consumption = (average over seasons) = 0.0776 g/g-BW Reference is USEPA, 1993, EPA/600/R-93/187a						
Adult Mallard Body Weight = (average male & female) = 1.134 kg Reference is USEPA, 1993, EPA/600/R-93/187a						
Adult Robin Body Weight (for dove, cowbird & starling) = (average over seasons) = 0.0773 kg Reference is USEPA, 1993, EPA/600/R-93/187a						
Adult Robin Food Consumption (for dove, cowbird, & starling) = (average over seasons) = 1.205 g/g-BW Reference is USEPA, 1993, EPA/600/R-93/187a						
Average Cattle Body Weight = 329 kg Reference is USEPA, 1987 EPA/60/6-87/008						
Adult Raccoon Body Weight = (average of male & female) = 5.616 kg; Reference is USEPA, 1993; EPA/600/R-93/187a						
Adult Raccoon Food Consumption = (based on all mammals) = 0.0687 x BW(kg) ^{0.822} , Reference is USEPA, 1993; EPA/600/R-93/187a						
Mature Mink Body Weight = (average male & female) = 1.0195 kg; Reference is USEPA, 1993, EPA/600/R-93/187a						
Mature Mink Food Consumption = (average male & female) = 0.2214 kg/day, Reference is USEPA, 1993, EPA/600/R-93/187a						

Polychlorinated Biphenyls (Aroclors 1254 & 1260) Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Mature White Footed Mouse	Body Weight		(average male & female) = 0.021 kg;	Reference is USEPA, 1993, EPA/600/R-93/187a		
Mature White-footed Mouse	Food Consumption		= (average male & female) = 0.195 g/g-BW/day;	Reference is USEPA, 1993, EPA/600/R-93/187a		
Adult Cottontail Rabbit	Body Weight		= (average of male & female) = 1.189 kg;	Reference is USEPA, 1993, EPA/600/R-93/187a		
Adult Cottontail Rabbit	Food Consumption		= (based on rodents) = 0.0621 x BW(kg) ^{0.564} ;	Reference is USEPA, 1993; EPA/600/R-93/187a		
Mature Rat	Body Weight		= (average male & female) = 0.325 kg;	Reference is USEPA, 1987, EPA/600/6-87/008		
Mature Rat	Food Consumption		= (average male & female) = 0.0265 kg/day;	Reference is USEPA, 1987, EPA/600/6-87/008		
Mature Sprague-Dawley Rat	Body Weight		= (average male & female) = 0.475 kg;	Reference is USEPA, 1987, EPA/600/6-87/008		
Mature Sprague-Dawley Rat	Food Consumption		= (average male & female) = 0.034 kg/day;	Reference is USEPA, 1987, EPA/600/6-87/008		
Average Chicken	Body Weight		= 0.272 kg	Reference is USEPA, 1987 EPA/600/6-87/008 (used USEPA 1993 formula for all birds for Food Consumption)		

Toluene Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		636	RTECS, Neurotoxicology, 2:567, 1981
Rat	LD ₅₀	Single Dose	Mortality		7000	ASTDR, 89
Rat	LD ₅₀	Single Dose	Mortality		5580	ASTDR, 89
Mouse	LOAEL	10-day (gestation)	Fetotoxicity	9 g/kg-total dose	900	RTECS, Internat. J. Abnorm. Develop., 19:41a, 1979
Mouse	LOAEL	10-day (gestation)	Cranofacial Abnormalities in Pups	30 g/kg-total dose	3000	RTECS, Internat. J. Abnorm. Develop., 19:41a, 1979
Mouse	LOAEL	42-day	Behavioral		98.3	ASTDR, 89
Rat	LOAEL	13-week	Brain, Liver, Kidneys Weights	162 g/kg-total dose	1780	RTECS, NTP-TR-371, 90
Mouse	LOAEL	13-week	Brain, Liver, Kidneys Weights	227 g/kg-total dose	2494	RTECS, NTP-TR-371, 90
Rat	LOAEL	13-week	Liver & Kidney Weights		446	IRIS, NTP Tech. Rpt. 371, 1989
Rat	LOAEL	13-week	Survival & Growth	2500 mg/kg 5x/week	1786	IRIS, NTP Tech. Rpt. 371, 1989
Rat	NOAEL	13-week	Liver & Kidney Weights		223	IRIS, NTP Tech. Rpt. 371, 1989
Rat	NOAEL	6-month	Hepatic, Renal, Hematol. Effects		590	ASTDR, 1989
Mouse	NOAEL	42-day	Behavioral		19.7	ASTDR, 89
Mouse	NOAEL	13-week	Survival, Growth, Organs Weights	1250 mg/kg 5x/week	893	IRIS, NTP Tech. Rpt. 371, 1989

Triphenylphosphine Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		700	RTECS, USEPA Office Pest. Tox. Subst. 8EHQ-0384-0014
Mouse	LD ₅₀	Single Dose	Mortality		1000	RTECS, USEPA Office Pest. Tox. Subst. 8EHQ-0384-0014
Chicken	LD ₁₀	Not Reported	Mortality	9000 mg-total dose		RTECS, USEPA Office Pest. Tox. Subst. 8EHQ-0384-0014
Rat	NOAEL	2-year	Clinical Signs		0.026	IRIS, (Phosphine), Hackenbunrg, Toxicol. Appl. Pharm. 23:147, 1972

Selenium Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat (A)	LD ₅₀	Single Dose	Mortality		6700	RTECS, Toxicol. Appl. Pharmacol. 20:89, 1971
Rat (B)	LD ₅₀	Single Dose	Mortality		7	ASTDR, 1969
Mouse (B)	LD ₅₀	Single Dose	Mortality		3.2 to 3.5	ASTDR, 1969
Guinea Pig (B)	LD ₅₀	Single Dose	Mortality		2.3	ASTDR, 1969
Rabbit (B)	LD ₅₀	Single Dose	Mortality		1	ASTDR, 1969
Dog (D)	LD ₅₀	Single Dose	Mortality		4	OHM/TADS
Cow (D)	LD ₅₀	Single Dose	Mortality		2	OHM/TADS
Home (D)	LD ₅₀	Single Dose	Mortality		2	OHM/TADS
Cow (D)	LD ₅₀	Single Dose	Mortality		4.5 to 5	OHM/TADS
Pig (D)	LD ₅₀	Single Dose	Mortality		6 to 8	OHM/TADS
Sheep (D)	LD ₅₀	Single Dose	Mortality		3.2 to 12.8	OHM/TADS
Horse/Mules (D)	LD ₅₀	Single Dose	Mortality		3.3	Eisler, 1985
Cattle (D)	LD ₅₀	Single Dose	Mortality		11	Eisler, 1985
Pig (D)	LD ₅₀	Single Dose	Mortality		15	Eisler, 1985
Rat (B)	LD ₅₀	1-year	Mortality		1.05	ASTDR, 1969
Mallard (B)	LD ₅₀	3-month	Mortality	100 mg/kg-diet	5.57	Eisler, 1985
Chicken (D)	LOAEL	Not Reported	Reduced Hatching	7 to 9 mg/kg-diet	0.34	Eisler, 1985
Quail (D)	LOAEL	Not Reported	Reduced Hatching	6 to 12 mg/kg-diet	0.62	Eisler, 1985
Mallard (C)	LOAEL	Not Reported	Growth, Reproduction	25 mg/kg-diet	1.39	Eisler, 1985
Mallard (C)	LOAEL	Not Reported	Developmental Abnormalities	10 mg/kg-diet	0.56	Eisler, 1985
Pig (B)	LOAEL	4-week	Panmyia		0.55	ASTDR, 1969
Pig (B)	LOAEL	6-week	Fetotoxicity		0.41	ASTDR, 1969
Rat (B)	LOAEL	1-year	Reproduction		0.35	ASTDR, 1969
Mouse (B)	LOAEL	3-generation	Fetotoxicity		0.42	ASTDR, 1969
Mallard (C)	NOAEL	Not Reported	Growth, Reproduction	5 mg/kg-diet	0.28	Eisler, 1985
Mouse (B)	NOAEL	48-day	Reproduction		0.17	ASTDR, 1969

A = Elemental
 B = Se +4 or +6
 C = Organo-selenium
 D = Not Specified

Chicken Body Weight (mature) = 1.7 kg, Reference is USEPA, 1987 EPA/600/6-87/008
 Mature Mallard Body Weight (average male & female) = 1.134 kg, Reference is USEPA, 1993, EPA/600/R-93/187a
 Mature Bobwhite Body Weight (seasonal average) = 0.191 kg, Reference is USEPA, 1993, EPA/600/R-93/187a
 Bird Food Ingestion (based on all birds) = 0.0582 x BW(kg)^{0.61}, Reference is USEPA 93, EPA/600/R-93/187a

Silver Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Livestock	LD ₅₀	Single Dose	Mortality	.05 ppm	5	OHM/TADS, RTECS (R), Geikhan Yabaji, Pharm. Monthly, 22:455, 1980
Livestock	LD ₅₀	Single Dose	Mortality		5	OHM/TADS,
Livestock	LD ₅₀	Single Dose	Mortality		5	
Cat (A)	LOAEL	Single Dose	Blindness	3,000 mg	845	HSD8, Grant, W.M., Tox. of the Eye, 3rd ed., 1966
Turkey, poult (A)	LOAEL	4 week	Survival, Growth	0.9% of diet	1.30E+05	HSD8, Peterson et al., Avian Dis. 17: 802, 1973
Chicken (A)	LOAEL	28-day	Survival, Growth	900 mg/kg-diet	43.5	NAS, 1980
Turkey (C)	LOAEL	28-day	Growth	900 mg/kg-diet		NAS, 1980
Turkey (C)	LOAEL	35-day	Growth	300 mg/kg-diet		NAS, 1980
Rat (A)	LOAEL	10 to 30 week	Pathological	0.2% (water)	2.70E+04	IRIS, Ambrose, et al., F. Sci Technol. 13:181, 1976
Rat (A)	LOAEL	11-month	Neurotoxicity	0.4 mg/L (water)	0.05	USEPA, Ambient Water Quality Criteria Doc. P. C-93, 1980
Rat (A)	LOAEL	11-month	Growth	20 mg/L (water)	2.7	USEPA, Ambient Water Quality Criteria Doc. P. C-93, 1980
Chicken (B)	NOAEL	3-week	Clinical Signs	100 mg/kg-diet	4.8	NAS, 1980
Turkey (C)	NOAEL	28-day	Growth	300 mg/kg-diet		NAS, 1980
Poultry (D)	NOAEL	Chronic	Maximum Tolerable Level	100 mg/kg-diet	4.8	NAS, 1980
Rat (A)	NOAEL	33-month	Growth, Neurotoxicity	0.2 mg/L (water)	0.03	USEPA, Ambient Water Quality Criteria Doc. P. C-93, 1980
Rat (A)	NOAEL	90-day	Growth, Organ Weight		5	IRIS, ABC Laboratories, 1986
Rat (A)	NOAEL	lifetime	Mortality	5 ppm (water)	0.67	HSD8, Schroeder, et al., J. Nutr. 104: 239, 1974
Rat (A)	NOAEL	2-year	Growth		25	IRIS, Ambrose, et al., F. Sci Technol. 13:181, 1976
Rat (A)	NOAEL	100-200 days	Clinical Signs		6 to 12	HSD8, Browning, E., Tox. of Indust. Metals, 1969
Rat (A)	NOAEL	15 week	Clinical signs, Growth	100ug/mL (water)	0.01	HSD8, Blalock, J. Appl. Tox. 7 (6): 387-90, 1987

A = Silver Nitrate
 B = Silver Sulfate
 C = Silver Acetate
 D = Not Specified

Mature Rat Body Weight (average male & female) = 0.325 kg, Reference is USEPA, 1987 EPA/600/6-87/008
 Mature Rat Water Consumption (average male & female) = 0.0435 L/day, Reference is USEPA, 1987 EPA/600/6-87/008
 Poultry Body Weight estimated at an age of 7 days = 0.073 kg, (based on chicken) Reference is USEPA, 1987 EPA/600/6-87/008
 Poultry Water Ingestion (based on all birds) = 0.059 x BW^{0.67}, Reference is USEPA 93, EPA/600/R-93/187a
 Chicken Body Weight (also for Poultry) = 1.7 kg, Reference in USEPA, 1987 EPA/600/6-87/008
 Bird Food Ingestion (based on all birds) = 0.0582 x BW^{0.67}, Reference is USEPA 93, EPA/600/R-93/187a
 Mature Cat Body Weight (average male & female) = 3.55 kg, Reference is USEPA, 1987 EPA/600/6-87/008

Vanadium Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose	Reference
Rat ^(A)	LD ₅₀	Single Dose	Mortality		100	RTECS, AM. Indust. Hyg. Assoc. J., 30:470, 1969
Rat ^(B)	LD ₅₀	Single Dose	Mortality		160	RTECS, AM. Indust. Hyg. Assoc. J., 30:470, 1969
Rat ^(C)	LD ₅₀	Single Dose	Mortality		540	RTECS, AM. Indust. Hyg. Assoc. J., 30:470, 1969
Rat ^(D)	LD ₅₀	Single Dose	Mortality		330	RTECS, AM. Indust. Hyg. Assoc. J., 30:470, 1969
Rat ^(E)	LD ₅₀	Single Dose	Mortality		10	RTECS, Arch. Toxicol., 16:182, 1956
Mouse ^(B)	LD ₅₀	Single Dose	Mortality		130	RTECS, Izmerov, et al., Centre Internat. Proj., GKNT, 1982:119
Mouse ^(D)	LD ₅₀	Single Dose	Mortality		23	RTECS, Izmerov, et al., Centre Internat. Proj., GKNT, 1982:119
Rat ^(F)	LOAEL	10-day	Fetotoxicity	180 mg/kg-Total Dose	18	RTECS, Chinese J. Prevent. Med., 20:189, 1986
Rat ^(F)	LOAEL	No Duration	Clinical Signs of Toxicity	1000 mg/kg-diet	81.5	HSDB, Clayton, et al., Patty's Ind. Hyg. & Tox. Vol. 2, 1982
Rat	NOAEL	90-day	Growth	5 ppm (water)	0.67	HSDB, Parker, et al., J. Env. Path. Tox. 2 (2): 235-46, 1978
Mouse	NOAEL	lifetime	Mortality, Growth	5 ppm (water)	1.22	HSDB, Clayton, et al., Patty's Ind. Hyg. & Tox. Vol. 2A:2C, 1981:2
Rat	NOAEL	lifetime	Mortality, Growth	5 ppm (water)	0.67	HSDB, Clayton, et al., Patty's Ind. Hyg. & Tox. Vol. 2A:2C, 1981:2
Rat, Female Long Evans	NOAEL	lifetime	Mortality, Growth	5 ppm (water)	0.66	IRIS, Ambrose, et al., F. Sci Technol. 13:181, 1976
Rat	NOAEL	2.5-year	Mortality, Growth	179 ppm	24	IRIS, Stokinger, et al., Patty's Ind. Hyg. & Tox., 3rd ed., 1981
Rat, Male Wistar	NOAEL	103-day	Clinical signs		7.5	IRIS, Mountain, et al., 1953

- (A): Vanadium Chloride
 (B): Vanadium Tetrachloride
 (C): Vanadium Dichloride
 (D): Vanadium Trichloride
 (E): Vanadium Trioxide
 (F): Vanadium Pentoxide

Mature Rat Body Weight (average male & female) = 0.325 kg, Reference is USEPA, 1987 EPA/600/6-87/008
 Mature Rat Food Consumption (average male & female) = 0.0265 kg/day, Reference is USEPA, 1987 EPA/600/6-87/008
 Mature Rat Water Consumption (average male & female) = 0.0435 L/day, Reference is USEPA, 1987 EPA/600/6-87/008
 Mature Rat (Long Evans) Body Weight (mature female) = 0.35 kg, Reference is USEPA, 1987 EPA/600/6-87/008
 Mature Rat (Long Evans) Water Consumption (mature female) = 0.046 L/day, Reference is USEPA, 1987 EPA/600/6-87/008
 Mature Mouse Body Weight (average male & female) = 0.0325 kg, Reference is USEPA, 1987 EPA/600/6-87/008
 Mature Mouse Water Consumption (average male & female) = 0.00795 L/day, Reference is USEPA, 1987 EPA/600/6-87/008

Xylenes Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat	LD ₅₀	Single Dose	Mortality		4300	RTECS, AMA Arch. Industr. Health 14:387, 1956
Rat	LD _{Lo}	Single Dose	Mortality	6 ml/kg		HSDB, Murakihara&Kishinokumari, Ind. J. Exper. Biol. 18:1148, 1980
Mouse	LD _{Lo}	Single Dose	Mortality		6000	RTECS, NTP-TR-327,86
Mouse	LOAEL	9-day (gestation)	Developmental Abnormalities	2.4/ml/kg-day		HSDB, Marks, et al., J. Toxicol. Environ. Health, 9:97, 1982
Rat	LOAEL	103-week	Growth	500 mg/kg-BW, 5X -week	357	HSDB, NTP TR-327, 86 NIH#87-2583
Mouse	NOAEL	103-week	Survival & Growth	1000 mg/kg-BW, 5X -week	714	HSDB, NTP TR-327, 86 NIH#87-2583
Rat	NOAEL	103-week	Survival & Growth	250 mg/kg-BW, 5X -week	179	HSDB, NTP TR-327, 86 NIH#87-2583

Zinc Oral Toxicity

Test Species	Endpoint	Duration	Effect	Concentration	Dose (mg/kg-BW/day)	Reference
Rat (A)	LD ₅₀	Single Dose	Mortality		794	RTECS, Vet. Human Toxicol. 30:224, 1988
Mouse (A)	LD ₅₀	Single Dose	Mortality		287	RTECS, Vet. Human Toxicol. 30:224, 1988
Rat (B)	LD ₅₀	Single Dose	Mortality		350	RTECS, Food Res. 7:313, 1942
Mouse (B)	LD ₅₀	Single Dose	Mortality		350	RTECS, Food Res. 7:313, 1942
Guinea Pig (B)	LD ₅₀	Single Dose	Mortality		200	RTECS, Food Res. 7:313, 1942
Rat (C)	LD ₅₀	Single Dose	Mortality		133	RTECS, Vet. Human Toxicol. 30:224, 1988
Mouse (C)	LD ₅₀	Single Dose	Mortality		926	RTECS, Vet. Human Toxicol. 30:224, 1988
Rat (D)	LD ₅₀	Single Dose	Mortality		2949	RTECS, Toxicol. European Res. 1:371, 1978
Mouse (D)	LD ₅₀	Single Dose	Mortality		57	RTECS, Internat. Polymer Sci. Technol. 3:93, 1976
Rat (D)	LOAEL	18-day (gestation)	Reduced Fertility	333 mg/kg-total dose	18.5	RTECS, Nat. Rep. Internat. 13:33, 1976
Rat (D)	LOAEL	13-week	Growth	226226 mg/kg-total dose	2486	RTECS, Nat. Rep. Internat. 13:33, 1976
Mouse (D)	LOAEL	1-year	Severe Anemia	5000 mg/L (water)	1223	HSDR, Encyclopaedia Occup. Health Saf., Vol. 42, 1983
Pig (weaning) (D)	LOAEL	> 1-month	Growth	1000 mg/L (water)		HSDR, Freilighburg, et al., Hand. Toxicol. Metals 2nd Ed., 1986
Pig (E)	LOAEL	69-day	Growth	2000 mg/kg-diet	80.5	NAS, 1980
Chickens (D)	LOAEL	Not Reported	Egg Production, Growth	2230 mg/L (water)	88.3	HSDR, Clarke, et al., Vet. Toxicol. 2nd Ed., 1981
Chickens (E)	LOAEL	10-week	Growth	3000 mg/kg-diet	145	Cassaway & Buss, 1972
Chickens (E)	NOAEL	10-week	No Observable Effects	1784 mg/kg-diet	88	NAS, 1980
Chickens (E)	NOAEL	10-week	No Observable Effects	1000 mg/kg-diet	49.5	Cassaway & Buss, 1972

A = Zinc Acetate
 B = Zinc Chloride
 C = Zinc Nitrate
 D = Zinc Sulfate
 E = Zinc Oxide
 F = Not Specified

Chickens Body Weight (mature) = 1.7 kg, Reference is USEPA, 1987 EPA/600/6-87/008
 Bird Food Ingestion (based on all birds) = 0.0582 x BW(kg)^{0.61}, Reference is USEPA 93, EPA/600/R-93/187a
 Chickens Water Ingestion (based on all birds) = 0.059 x BW(kg)^{0.67}, Reference is USEPA 93, EPA/600/R-93/187a
 Mature Mouse Body Weight (average male & female) = 0.0325 kg, Reference in USEPA, 1987 EPA/600/6-87/008
 Mature Mouse Water Ingestion (average male & female) = 0.00795 L/day Reference in USEPA, 1987 EPA/600/6-87/008
 Young Pig Body Weight (assume white-cross) = 10 kg, Reference is USEPA, 1987 EPA/600/6-87/008
 Pig Food Ingestion (based on all animals) = 0.065 x BW(kg)^{0.791}, Reference is USEPA, 1987, EPA/600/6-87/008

APPENDIX I

**EXPOSURE POINT CONCENTRATIONS
AND
HAZARD QUOTIENTS**

Section A

Summaries of Exposure Point Concentrations

Section B

Model Input/Output Exposure Point Concentrations

Section C

Hazard Quotient Concentrations

APPENDIX I

EXPOSURE POINT CONCENTRATIONS AND HAZARD QUOTIENTS CALCULATIONS

This forward has been added to Appendix I to clarify calculations provided in the following tables.

I. Fraction of Organic Carbon

Sediment pore-water concentrations for organics were calculated using the relationship:

$$C_{\text{Pore water}} = C_{\text{sediment}} \div (K_{\text{oc}} \times f_{\text{oc}})$$

where :

$C_{\text{Pore water}}$	=	Contaminant concentration in pore water (ug/l)
C_{sediment}	=	Contaminant concentration in sediment (ug/kg)
K_{oc}	=	Organic carbon partitioning coefficient (l/kg organic carbon)
f_{oc}	=	fraction organic carbon (kg organic carbon/kg sediment)

The mean organic carbon concentration was used to calculate f_{oc} . Using aldrin as an example, the f_{oc} for Section EE03 equals 0.02215 from the following equation: mean TOC concentration (22,150 milligrams organic carbon per kilograms of sediment) divided by conversion factor of one-million milligrams sediment per kilogram sediment (22,150 mg/kg ÷ 1,000,000 mg/kg); then using the above equation where:

C_{sediment}	=	Contaminant concentration in sediment (6 ug/kg)
K_{oc}	=	Organic carbon partitioning coefficient ($10^{4.1}$ l/kg organic carbon)
f_{oc}	=	fraction organic carbon (0.02215 kg organic carbon/kg sediment)

The resulting pore water concentration for aldrin at Section EE03 is 0.0215 ug/l (rounded to two significant digits 0.022) as listed in Table 4-7.

II. Fruit Concentration

Fruit concentrations were used as the exposure point concentrations employed for the risk estimation. Plant tissue values were estimated based on a modeling approach modified from Trapp and McFarlane (1995) as follows:

$$\text{TSCF} = 0.784 * e^{[-(\log K_{ow}-1.78)^2/2.44]}$$

where:

TSCF = transpiration stream concentration factor

The concentration in the transpiration stream (stem) is first calculated as:

$$\text{Transpiration stream concentration} = \text{TSCF} * \text{pore water concentration}$$

Based on the resulting transpiration stream concentration, the concentration in the fruit is then calculated as:

$$\text{Concentration in fruit} = k_{cw} * \text{Transpiration stream concentration}$$

where:

k_{cw} = partition coefficient between cuticle and water

For example using aldrin's mean pore water concentration in Section EE01, the TSCF equals 0.008795 using the above equation where:

$$\log K_{ow} = 5.09$$

$$\text{pore water concentration} = 0.170656457 \mu\text{g/l}$$

$$k_{cw} = 329.200558$$

$$\text{TSCF} = 0.784 * e^{[-(5.09-1.78)^2/2.44]}$$

$$\therefore = 0.784 * e^{-4.4902505}$$

$$\therefore = 0.784 * 0.11218$$

$$\therefore = 0.008795$$

The transpiration stream concentration is calculated next using the following equation:

$$\text{Transpiration stream concentration} = \text{TSCF} * \text{pore water concentration}$$

$$\therefore = 0.008795 * 0.170656457 \mu\text{g/l}$$

$$\therefore = 0.001501 \mu\text{g/l}$$

Based on the resulting transpiration stream concentration, the concentration in the fruit is then calculated as:

$$\text{Concentration in fruit} = k_{cw} * \text{Transpiration stream concentration}$$

$$\therefore = 329.200558 * 0.001501$$

$$\therefore = 0.49411511 \text{ ug/kg}$$

III. Allometric Equations

The following allometric equations from USEPA (1993b) are used in the ingestion-pathway exposure assumptions for selected ecological receptors:

$$\text{Water Ingestion Rate (birds)(l/day)} = 0.059W_t^{0.67}$$

$$\text{Water Ingestion Rate (mammals)(l/day)} = 0.099W_t^{0.90}$$

$$\text{Food Ingestion Rate (red-winged blackbird)(kg/day)} = 0.0582W_t^{0.651}$$

$$\text{Food Ingestion Rate (herbivorous mammals)(kg/day)} = 0.577W_t^{0.727}$$

$$\text{Food Ingestion Rate (raccoon)(kg/day)} = 0.0687W_t^{0.822}$$

where: W_t = weight of receptor in kilograms

An example of the use of the allometric equations follows. The green heron water ingestion rate is calculated using the above equation ($WI = 0.059W_t^{0.67}$) and an average body weight of 0.158 kg

$$WI = 0.059 \times (0.158)^{0.67} \text{ (where WI is water intake/water ingestion rate)}$$

$$\therefore WI = 0.059 \times 0.2904693$$

$$\therefore WI = 0.017 \text{ l/day}$$

The remaining allometric equations are solved in a similar manner using receptor-specific information.

IV. Dry-Wet Weight Sediment Conversion

All sediment concentration analytical results were reported on a dry weight basis. The percent moisture of the sample was also reported. The following equation was used to convert dry-weight concentrations to wet-weight concentrations as necessary:

$$\text{Wet Weight Concentration (mg/kg)} = \text{Dry Weight Concentration} * [(100 - \% \text{ Moisture})/100]$$

Using barium as an example from Section EE01 (1995) and the previous equation where:

$$\text{dry weight concentration} = 243 \text{ mg/kg}$$

$$\% \text{ moisture} = 17$$

$$\text{Wet Weight Concentration (mg/kg)} = 243 \text{ mg/kg} * [(100-17)/100]$$

$$\therefore = 243 \text{ mg/kg} * 0.83$$

$$\therefore = 201.69 \text{ mg barium/kg sediment (wet weight)}$$

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COEC	Exposure Point Concentrations	TABLE DESCRIPTION	Green Heron	Red-Winged Blackbird	Muskrat	Raccoon
	TABLE		TABLE NUMBER			
Antimony	I-1	Mean NOAEL	I-23	I-118	I-218	I-328
		Mean LOAEL	I-24	I-119	I-219	I-329
		Max NOAEL	I-25	I-120	I-220	I-330
		Max LOAEL	I-26	I-121	I-221	I-331
		%Diet to ADD	I-27	I-122	I-222	I-332
Arsenic	I-2	Mean NOAEL	I-28	I-123	I-223	I-333
		Mean LOAEL	I-29	I-124	I-224	I-334
		Max NOAEL	I-30	I-125	I-225	I-335
		Max LOAEL	I-31	I-126	I-226	I-336
		%Diet to ADD	I-32	I-127	I-227	I-337
Cadmium	I-3	Mean NOAEL	I-33	I-128	I-228	I-338
		Mean LOAEL	I-34	I-129	I-229	I-339
		Max NOAEL	I-35	I-130	I-230	I-340
		Max LOAEL	I-36	I-131	I-231	I-341
		%Diet to ADD	I-37	I-132	I-232	I-342
Chromium	I-4	Mean NOAEL	I-38	I-133	I-233	I-343
		Mean LOAEL	I-39	I-134	I-234	I-344
		Max NOAEL	I-40	I-135	I-235	I-345
		Max LOAEL	I-41	I-136	I-236	I-346
		%Diet to ADD	I-42	I-137	I-237	I-347
Cobalt	I-5	Mean NOAEL	I-43	I-138	I-238	I-348
		Mean LOAEL	I-44	I-139	I-239	I-349
		Max NOAEL	I-45	I-140	I-240	I-350
		Max LOAEL	I-46	I-141	I-241	I-351
		%Diet to ADD	I-47	I-142	I-242	I-352
Cyanide	I-6	Mean NOAEL	I-48	I-143	I-243	I-353
		Mean LOAEL	I-49	I-144	I-244	I-354
		Max NOAEL	I-50	I-145	I-245	I-355
		Max LOAEL	I-51	I-146	I-246	I-356
		%Diet to ADD	I-52	I-147	I-247	I-357
Lead	I-7	Mean NOAEL	I-53	I-148	I-248	I-358
		Mean LOAEL	I-54	I-149	I-249	I-359
		Max NOAEL	I-55	I-150	I-250	I-360
		Max LOAEL	I-56	I-151	I-251	I-361
		%Diet to ADD	I-57	I-152	I-252	I-362
Mercury	I-8	Mean NOAEL	I-58	I-153	I-253	I-363
		Mean LOAEL	I-59	I-154	I-254	I-364
		Max NOAEL	I-60	I-155	I-255	I-365
		Max LOAEL	I-61	I-156	I-256	I-366
		%Diet to ADD	I-62	I-157	I-257	I-367

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COEC	Exposure Point Concentrations	TABLE DESCRIPTION	Green Heron	Red-Winged Blackbird	Muskrat	Raccoon
Molybdenum	TABLE		TABLE NUMBER			
	I-9	Mean NOAEL			I-258	I-368
		Mean LOAEL			I-259	I-369
		Max NOAEL			I-260	I-370
		Max LOAEL			I-261	I-371
	%Diet to ADD			I-262	I-372	
Nickel	I-10	Mean NOAEL	I-63	I-158	I-263	I-373
		Mean LOAEL	I-64	I-159	I-264	I-374
		Max NOAEL	I-65	I-160	I-265	I-375
		Max LOAEL	I-66	I-161	I-266	I-376
		%Diet to ADD	I-67	I-162	I-267	I-377
Selenium	I-11	Mean NOAEL	I-68	I-163	I-268	I-378
		Mean LOAEL	I-69	I-164	I-269	I-379
		Max NOAEL	I-70	I-165	I-270	I-380
		Max LOAEL	I-71	I-166	I-271	I-381
		%Diet to ADD	I-72	I-167	I-272	I-382
Silver	I-12	Mean NOAEL	I-73	I-168	I-273	I-383
		Mean LOAEL	I-74	I-169	I-274	I-384
		Max NOAEL	I-75	I-170	I-275	I-385
		Max LOAEL	I-76	I-171	I-276	I-386
		%Diet to ADD	I-77	I-172	I-277	I-387
Pentachlorophenol	I-13	Mean NOAEL			I-278	I-388
		Mean LOAEL			I-279	I-389
		Max NOAEL			I-280	I-390
		Max LOAEL			I-281	I-391
		%Diet to ADD			I-282	I-392
Total PCBs	I-14	Mean NOAEL	I-78	I-173	I-283	I-393
		Mean LOAEL	I-79	I-174	I-284	I-394
		Max NOAEL	I-80	I-175	I-285	I-395
		Max LOAEL	I-81	I-176	I-286	I-396
		%Diet to ADD	I-82	I-177	I-287	I-397
Aldrin	I-15	Mean NOAEL	I-83	I-178	I-288	I-398
		Mean LOAEL	I-84	I-179	I-289	I-399
		Max NOAEL	I-85	I-180	I-290	I-400
		Max LOAEL	I-86	I-181	I-291	I-401
		%Diet to ADD	I-87	I-182	I-292	I-402
alpha-Chlordane	I-16	Mean NOAEL	I-88	I-183	I-293	I-403
		Mean LOAEL	I-89	I-184	I-294	I-404
		Max NOAEL	I-90	I-185	I-295	I-405
		Max LOAEL	I-91	I-186	I-296	I-406
		%Diet to ADD	I-92	I-187	I-297	I-407

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COEC	Exposure Point Concentrations	TABLE DESCRIPTION	Green Heron	Red-Winged Blackbird	Muskrat	Raccoon
	TABLE		TABLE NUMBER			
Dieldrin	I-17	Mean NOAEL	I-93	I-188	I-298	I-408
		Mean LOAEL	I-94	I-189	I-299	I-409
		Max NOAEL	I-95	I-190	I-300	I-410
		Max LOAEL	I-96	I-191	I-301	I-411
		%Diet to ADD	I-97	I-192	I-302	I-412
Heptachlor	I-18	Mean NOAEL	I-98	I-193	I-303	I-413
		Mean LOAEL	I-99	I-194	I-304	I-414
		Max NOAEL	I-100	I-195	I-305	I-415
		Max LOAEL	I-101	I-196	I-306	I-416
		%Diet to ADD	I-102	I-197	I-307	I-417
Heptachlor epoxid	I-19	Mean NOAEL	I-103	I-198	I-308	I-418
		Mean LOAEL	I-104	I-199	I-309	I-419
		Max NOAEL	I-105	I-200	I-310	I-420
		Max LOAEL	I-106	I-201	I-311	I-421
		%Diet to ADD	I-107	I-202	I-312	I-422
Endosulfan Sulfate	I-20	Mean NOAEL	I-108	I-203	I-313	I-423
		Mean LOAEL	I-109	I-204	I-314	I-424
		Max NOAEL	I-110	I-205	I-315	I-425
		Max LOAEL	I-111	I-206	I-316	I-426
		%Diet to ADD	I-112	I-207	I-317	I-427
Benzidine	I-21	Mean NOAEL		I-208	I-318	I-428
		Mean LOAEL		I-209	I-319	I-429
		Max NOAEL		I-210	I-320	I-430
		Max LOAEL		I-211	I-321	I-431
		%Diet to ADD		I-212	I-322	I-432
High MW PAHs	I-22	Mean NOAEL	I-113	I-213	I-323	I-433
		Mean LOAEL	I-114	I-214	I-324	I-434
		Max NOAEL	I-115	I-215	I-325	I-435
		Max LOAEL	I-116	I-216	I-326	I-436
		%Diet to ADD	I-117	I-217	I-327	I-437

Section A

Summaries of Exposure Point Concentrations

**TABLE I-1
EXPOSURE POINT CONCENTRATIONS FOR
Antimony**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	9,000	9,000	3,000	3,000	480,000	480,000	480,000	480,000	0.102	0.102	0.102	0.102
EE02	9,000	9,000	3,000	3,000	480,000	480,000	480,000	480,000	0.102	0.102	0.102	0.102
EE03	9,000	9,000	3,000	3,000	480,000	480,000	480,000	480,000	0.102	0.102	0.102	0.102
EE04	9,000	9,000	3,000	3,000	480,000	480,000	480,000	480,000	0.102	0.102	0.102	0.102
EE05	9,000	9,000	3,000	3,000	480,000	480,000	480,000	480,000	0.102	0.102	0.102	0.102
EE06	9,000	9,000	3,000	3,000	480,000	480,000	480,000	480,000	0.102	0.102	0.102	0.102
EE07	9,000	9,000	3,000	3,000	480,000	480,000	480,000	480,000	0.102	0.102	0.102	0.102
EE08	9,000	9,000	3,000	3,000	480,000	480,000	480,000	480,000	0.102	0.102	0.102	0.102
EE09	11,250	13,500	3,000	3,000	600,000	720,000	600,000	720,000	0.128	0.153	0.128	0.153
EE10	9,000	9,000	3,000	3,000	480,000	480,000	480,000	480,000	0.102	0.102	0.102	0.102
EW01	9,000	9,000	3,000	3,000	480,000	480,000	480,000	480,000	0.102	0.102	0.102	0.102
EW02	9,000	9,000	3,000	3,000	480,000	480,000	480,000	480,000	0.102	0.102	0.102	0.102
EW03	9,000	9,000	3,000	3,000	480,000	480,000	480,000	480,000	0.102	0.102	0.102	0.102

**TABLE I-1
EXPOSURE POINT CONCENTRATIONS FOR
Antimony**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.102	0.102	0.102	0.102	4.85875	6.0175			30	30	5.475	7.25
EE02	0.102	0.102	0.102	0.102	10.476	14.91			30	30	12.85	17.75
EE03	0.102	0.102	0.102	0.102	4.487	5.964			30	30	5.3	7.1
EE04	0.102	0.102	0.102	0.102	2.994	3			30	30	3.675	3.75
EE05	0.102	0.102	0.102	0.102	3.850333333	5.694			30	30	4.81666667	7.3
EE06	0.102	0.102	0.102	0.102	3.011	3.014			30	30	6.625	6.85
EE07	0.102	0.102	0.102	0.102	3.0235	3.0295			30	30	3.95	4.25
EE08	0.102	0.102	0.102	0.102	2.99925	3.0015			30	30	4.025	4.35
EE09	0.128	0.153	0.128	0.153	2.995	2.997			37.5	45	3.675	3.7
EE10	0.102	0.102	0.102	0.102	3.0135	3.024			30	30	3.725	3.85
EW01	0.102	0.102	0.102	0.102	3.0015	3.003			30	30	5.45	7.15
EW02	0.102	0.102	0.102	0.102	2.9965	3			30	30	3.825	4
EW03	0.102	0.102	0.102	0.102	2.9925	2.993			30	30	3.525	3.65

**TABLE I-2
EXPOSURE POINT CONCENTRATIONS FOR
Arsenic**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.833	0.833	0.520	0.520	0.155	0.155	0.155	0.155	0.005	0.005	0.005	0.005
EE02	0.799	1.232	0.520	0.520	0.149	0.229	0.149	0.229	0.004	0.007	0.004	0.007
EE03	1.215	1.665	0.520	0.520	0.226	0.310	0.226	0.310	0.007	0.009	0.007	0.009
EE04	1.249	1.665	0.620	0.620	0.233	0.310	0.233	0.310	0.007	0.009	0.007	0.009
EE05	1.665	1.665	0.620	0.620	0.310	0.310	0.310	0.310	0.009	0.009	0.009	0.009
EE06	1.249	1.665	0.620	0.620	0.233	0.310	0.233	0.310	0.007	0.009	0.007	0.009
EE07	0.450	0.566	0.720	0.720	0.084	0.105	0.084	0.105	0.002	0.003	0.002	0.003
EE08	0.833	0.833	0.720	0.720	0.155	0.155	0.155	0.155	0.005	0.005	0.005	0.005
EE09	0.833	0.833	0.720	0.720	0.155	0.155	0.155	0.155	0.005	0.005	0.005	0.005
EE10	38.711	76.590	0.720	0.720	7.208	14.260	7.208	14.260	0.209	0.414	0.209	0.414
EW01	0.683	0.833	0.500	0.500	0.127	0.155	0.127	0.155	0.004	0.005	0.004	0.005
EW02	0.683	0.833	0.500	0.500	0.127	0.155	0.127	0.155	0.004	0.005	0.004	0.005
EW03	0.716	0.833	0.500	0.500	0.133	0.155	0.133	0.155	0.004	0.005	0.004	0.005

**TABLE I-2
EXPOSURE POINT CONCENTRATIONS FOR
Arsenic**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.005	0.005	0.005	0.005	1.581	2			2.5	2.5	1.7	2
EE02	0.004	0.007	0.004	0.007	3.768	6.612			2.4	3.7	4.9	8.7
EE03	0.007	0.009	0.007	0.009	1.103	1.26			3.65	5	1.3	1.5
EE04	0.007	0.009	0.007	0.009	1.104	1.328			3.75	5	1.35	1.6
EE05	0.009	0.009	0.009	0.009	2.558	3.01			5	5	3.1	3.5
EE06	0.007	0.009	0.007	0.009	2.4465	2.684			3.75	5	5.4	6.1
EE07	0.002	0.003	0.002	0.003	0.4819	0.6816			1.35	1.7	0.65	0.96
EE08	0.005	0.005	0.005	0.005	1.2345	1.296			2.5	2.5	1.65	1.7
EE09	0.005	0.005	0.005	0.005	0.6628	0.891			2.5	2.5	0.815	1.1
EE10	0.209	0.414	0.209	0.414	2.016	2.184			116.25	230	2.5	2.8
EW01	0.004	0.005	0.004	0.005	1.461	1.722			2.05	2.5	2.8	4.1
EW02	0.004	0.005	0.004	0.005	1.488	1.5			2.05	2.5	1.9	2
EW03	0.004	0.005	0.004	0.005	2.9137	5.104			2.15	2.5	3.245	5.8

**TABLE I-3
EXPOSURE POINT CONCENTRATIONS FOR
Cadmium**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	1.170	2.105	2.200	2.900	1.350	2.428	1.350	2.428	0.043	0.077	0.043	0.077
EE02	1.394	2.105	2.200	2.900	1.607	2.428	1.607	2.428	0.051	0.077	0.051	0.077
EE03	1.402	2.105	2.200	2.900	1.617	2.428	1.617	2.428	0.051	0.077	0.051	0.077
EE04	0.278	0.303	6.900	8.000	0.320	0.350	0.320	0.350	0.010	0.011	0.010	0.011
EE05	6.989	8.252	6.900	8.000	8.059	9.516	8.059	9.516	0.256	0.302	0.256	0.302
EE06	0.741	0.926	6.900	8.000	0.854	1.068	0.854	1.068	0.027	0.034	0.027	0.034
EE07	0.800	1.010	1.700	2.300	0.922	1.165	0.922	1.165	0.029	0.037	0.029	0.037
EE08	0.720	0.842	3.500	3.500	0.830	0.971	0.830	0.971	0.026	0.031	0.026	0.031
EE09	0.741	0.842	4.600	4.800	0.854	0.971	0.854	0.971	0.027	0.031	0.027	0.031
EE10	0.770	0.926	4.600	4.800	0.888	1.068	0.888	1.068	0.028	0.034	0.028	0.034
EW01	0.265	0.303	2.630	3.300	0.306	0.350	0.306	0.350	0.010	0.011	0.010	0.011
EW02	1.162	2.021	2.630	3.300	1.340	2.330	1.340	2.330	0.043	0.074	0.043	0.074
EW03	0.552	0.842	2.630	3.400	0.636	0.971	0.636	0.971	0.020	0.031	0.020	0.031

**TABLE I-3
EXPOSURE POINT CONCENTRATIONS FOR
Cadmium**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.043	0.077	0.043	0.077	1.7215	1.743			1.39	2.5	1.9	2.1
EE02	0.051	0.077	0.051	0.077	0.877	1.26			1.655	2.5	1.075	1.5
EE03	0.051	0.077	0.051	0.077	3.385	4.62			1.665	2.5	4	5.5
EE04	0.010	0.011	0.010	0.011	2.685	2.88			0.33	0.36	3.3	3.6
EE05	0.256	0.302	0.256	0.302	124.63	160.68			8.3	9.8	154.5	206
EE06	0.027	0.034	0.027	0.034	45.1	69.52			0.88	1.1	101	158
EE07	0.029	0.037	0.029	0.037	4.0375	5.751			0.95	1.2	5.45	8.1
EE08	0.026	0.031	0.026	0.031	13.581	18.468			0.855	1	17.7	22.8
EE09	0.027	0.031	0.027	0.031	22.333	22.796			0.88	1	27.4	27.8
EE10	0.028	0.034	0.028	0.034	11.133	20.67			0.915	1.1	14.2	26.5
EW01	0.010	0.011	0.010	0.011	15.843	27.846			0.315	0.36	35.55	66.3
EW02	0.043	0.074	0.043	0.074	2.949	3.198			1.38	2.4	3.75	3.9
EW03	0.020	0.031	0.020	0.031	1.04905	1.848			0.655	1	1.2025	2.1

**TABLE I-4
EXPOSURE POINT CONCENTRATIONS FOR
Chromium**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
	EE01	20.000	20.000	2.730	3.100	10.000	10.000	10.000	10.000	1.000	1.000	1.000
EE02	41.000	48.000	2.730	3.100	20.500	24.000	20.500	24.000	2.050	2.400	2.050	2.400
EE03	27.200	34.400	2.730	3.100	13.600	17.200	13.600	17.200	1.360	1.720	1.360	1.720
EE04	22.600	25.200	2.870	3.600	11.300	12.600	11.300	12.600	1.130	1.260	1.130	1.260
EE05	54.000	88.000	2.870	3.600	27.000	44.000	27.000	44.000	2.700	4.400	2.700	4.400
EE06	20.000	20.000	2.870	3.600	10.000	10.000	10.000	10.000	1.000	1.000	1.000	1.000
EE07	22.200	24.400	3.800	4.100	11.100	12.200	11.100	12.200	1.110	1.220	1.110	1.220
EE08	126.000	168.000	4.900	4.900	63.000	84.000	63.000	84.000	6.300	8.400	6.300	8.400
EE09	90.000	132.000	3.670	4.000	45.000	66.000	45.000	66.000	4.500	6.600	4.500	6.600
EE10	54.000	64.000	3.670	4.000	27.000	32.000	27.000	32.000	2.700	3.200	2.700	3.200
EW01	20.000	20.000	1.560	2.700	10.000	10.000	10.000	10.000	1.000	1.000	1.000	1.000
EW02	23.200	26.400	1.560	2.700	11.600	13.200	11.600	13.200	1.160	1.320	1.160	1.320
EW03	20.000	20.000	1.357	2.300	10.000	10.000	10.000	10.000	1.000	1.000	1.000	1.000

**TABLE I-4
EXPOSURE POINT CONCENTRATIONS FOR
Chromium**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	1.000	1.000	1.000	1.000	12.068	16.5			5	5	12.85	16.5
EE02	2.050	2.400	2.050	2.400	42.602	64.372			10.25	12	54.75	84.7
EE03	1.360	1.720	1.360	1.720	25.58	25.704			6.8	8.6	30.1	30.6
EE04	1.130	1.260	1.130	1.260	58.5135	86.4			5.65	6.3	72.45	108
EE05	2.700	4.400	2.700	4.400	537.64	584.22			13.5	22	660	749
EE06	1.000	1.000	1.000	1.000	345.05	563.2			5	5	775	1280
EE07	1.110	1.220	1.110	1.220	52.2	89.46			5.55	6.1	72	126
EE08	6.300	8.400	6.300	8.400	88.5885	146.61			31.5	42	112.65	181
EE09	4.500	6.600	4.500	6.600	186.945	238.62			22.5	33	229	291
EE10	2.700	3.200	2.700	3.200	109.254	202.8			13.5	16	139.35	260
EW01	1.000	1.000	1.000	1.000	158.21	272.58			5	5	351.9	649
EW02	1.160	1.320	1.160	1.320	54.0995	70.725			5.8	6.6	70	94.3
EW03	1.000	1.000	1.000	1.000	29.494	33.292			5	5	34.9	40.6

**TABLE I-5
EXPOSURE POINT CONCENTRATIONS FOR
Cobalt**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.300	0.300	1.200	1.200	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079
EE02	0.300	0.300	1.200	1.200	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079
EE03	0.300	0.300	1.200	1.200	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079
EE04	0.300	0.300	1.200	1.200	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079
EE05	0.300	0.300	1.200	1.200	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079
EE06	0.300	0.300	1.200	1.200	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079
EE07	0.300	0.300	1.200	1.200	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079
EE08	0.300	0.300	1.200	1.200	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079
EE09	0.300	0.300	1.200	1.200	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079
EE10	0.300	0.300	1.200	1.200	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079
EW01	0.300	0.300	1.000	1.000	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079
EW02	0.300	0.300	1.000	1.000	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079
EW03	0.300	0.300	1.000	1.000	5.000	5.000	5.000	5.000	0.079	0.079	0.079	0.079

**TABLE I-5
EXPOSURE POINT CONCENTRATIONS FOR
Cobalt**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.079	0.079	0.079	0.079	2.748	4.5			5	5	2.85	4.5
EE02	0.079	0.079	0.079	0.079	2.683	2.888			5	5	3.375	3.8
EE03	0.079	0.079	0.079	0.079	1.321	1.634			5	5	1.55	1.9
EE04	0.079	0.079	0.079	0.079	1.75	1.84			5	5	2.15	2.3
EE05	0.079	0.079	0.079	0.079	6.454	6.63			5	5	7.9	8.5
EE06	0.079	0.079	0.079	0.079	7.361	8.8			5	5	16.3	20
EE07	0.079	0.079	0.079	0.079	3.344	5.609			5	5	4.6	7.9
EE08	0.079	0.079	0.079	0.079	3.42	3.519			5	5	4.6	5.1
EE09	0.079	0.079	0.079	0.079	3.9535	4.1			5	5	4.85	5
EE10	0.079	0.079	0.079	0.079	3.945	4.446			5	5	4.9	5.7
EW01	0.079	0.079	0.079	0.079	35.86	56.28			5	5	76.65	134
EW02	0.079	0.079	0.079	0.079	3.351	3.75			5	5	4.3	5
EW03	0.079	0.079	0.079	0.079	4.266	6.072			5	5	4.95	6.9

**TABLE I-6
EXPOSURE POINT CONCENTRATIONS FOR
Cyanide**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.008	0.015	0.008	0.015
EE02	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
EE03	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
EE04	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
EE05	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
EE06	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
EE07	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
EE08	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
EE09	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
EE10	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
EW01	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
EW02	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
EW03	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015

**TABLE I-6
EXPOSURE POINT CONCENTRATIONS FOR
Cyanide**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.008	0.015	0.008	0.015	0.1267275	0.25315			2.5025	5	0.1526525	0.305
EE02	0.015	0.015	0.015	0.015	0.2493	0.2508			5	5	0.3125	0.33
EE03	0.015	0.015	0.015	0.015	0.2486	0.2494			5	5	0.2925	0.295
EE04	0.015	0.015	0.015	0.015	0.2485	0.249			5	5	0.305	0.31
EE05	0.015	0.015	0.015	0.015	2.848	4.836			5	5	3.6	6.2
EE06	0.015	0.015	0.015	0.015	0.25025	0.2585			5	5	0.55	0.55
EE07	0.015	0.015	0.015	0.015	0.2526	0.25315			5	5	0.33	0.355
EE08	0.015	0.015	0.015	0.015	0.24945	0.25185			5	5	0.335	0.365
EE09	0.015	0.015	0.015	0.015	0.2506	0.2511			5	5	0.3075	0.31
EE10	0.015	0.015	0.015	0.015	0.2508	0.252			5	5	0.31	0.32
EW01	0.015	0.015	0.015	0.015	0.252	0.252			5	5	0.4575	0.6
EW02	0.015	0.015	0.015	0.015	0.250675	0.25125			5	5	0.32	0.335
EW03	0.015	0.015	0.015	0.015	0.25045	0.2508			5	5	0.295	0.305

**TABLE I-7
EXPOSURE POINT CONCENTRATIONS FOR
Lead**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	4.121	5.856	1.640	2.100	2.538	3.607	2.538	3.607	0.029	0.041	0.029	0.041
EE02	28.197	52.056	1.640	2.100	17.368	32.064	17.368	32.064	0.196	0.362	0.196	0.362
EE03	4.761	7.592	1.640	2.100	2.933	4.676	2.933	4.676	0.033	0.053	0.033	0.053
EE04	3.145	4.338	3.940	5.600	1.937	2.672	1.937	2.672	0.022	0.030	0.022	0.030
EE05	7.917	14.749	3.940	5.600	4.876	9.085	4.876	9.085	0.055	0.103	0.055	0.103
EE06	35.463	65.070	3.940	5.600	21.844	40.080	21.844	40.080	0.247	0.453	0.247	0.453
EE07	6.615	6.941	1.700	2.500	4.075	4.275	4.075	4.275	0.046	0.048	0.046	0.048
EE08	4.772	4.989	2.300	2.300	2.939	3.073	2.939	3.073	0.033	0.035	0.033	0.035
EE09	10.520	16.484	1.630	2.000	6.480	10.154	6.480	10.154	0.073	0.115	0.073	0.115
EE10	4.880	4.989	1.630	2.000	3.006	3.073	3.006	3.073	0.034	0.035	0.034	0.035
EW01	4.555	4.772	0.840	0.910	2.806	2.939	2.806	2.939	0.032	0.033	0.032	0.033
EW02	27.958	54.225	0.840	0.910	17.221	33.400	17.221	33.400	0.195	0.378	0.195	0.378
EW03	3.199	4.338	1.183	1.600	1.971	2.672	1.971	2.672	0.022	0.030	0.022	0.030

**TABLE I-7
EXPOSURE POINT CONCENTRATIONS FOR
Lead**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.029	0.041	0.029	0.041	19.8625	25.2			1.9	2.7	21.35	25.2
EE02	0.196	0.362	0.196	0.362	15.07	17.708			13	24	19.05	23.3
EE03	0.033	0.053	0.033	0.053	12.041	21.588			2.195	3.5	14.3	25.7
EE04	0.022	0.030	0.022	0.030	112.4835	196			1.45	2	139.95	245
EE05	0.055	0.103	0.055	0.103	94.793	106.08			3.65	6.8	116.55	136
EE06	0.247	0.453	0.247	0.453	72.095	91.08			16.35	30	160	207
EE07	0.046	0.048	0.046	0.048	7.305	10.792			3.05	3.2	9.9	15.2
EE08	0.033	0.035	0.033	0.035	13.2225	17.82			2.2	2.3	17.25	22
EE09	0.073	0.115	0.073	0.115	56.685	63.96			4.85	7.6	69.5	78
EE10	0.034	0.035	0.034	0.035	16.278	23.4			2.25	2.3	20.45	30
EW01	0.032	0.033	0.032	0.033	73.37	119.7			2.1	2.2	159.4	285
EW02	0.195	0.378	0.195	0.378	34.704	51.45			12.89	25	45.25	68.6
EW03	0.022	0.030	0.022	0.030	10.819	15.488			1.475	2	12.55	17.6

**TABLE I-8
EXPOSURE POINT CONCENTRATIONS FOR
Mercury**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252
EE02	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252
EE03	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252
EE04	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252
EE05	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252
EE06	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252
EE07	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252
EE08	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252
EE09	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252
EE10	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252
EW01	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252
EW02	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252
EW03	0.100	0.100	0.050	0.050	10.000	10.000	10.000	10.000	0.252	0.252	0.252	0.252

**TABLE I-8
EXPOSURE POINT CONCENTRATIONS FOR
Mercury**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.200	0.200	0.100	0.100	0.1099	0.17			0.1	0.1	0.115	0.17
EE02	0.200	0.200	0.100	0.100	0.4102	0.714			0.1	0.1	0.495	0.85
EE03	0.200	0.200	0.100	0.100	0.11772	0.1548			0.1	0.1	0.138	0.18
EE04	0.200	0.200	0.100	0.100	0.0505	0.0512			0.1	0.1	0.062	0.064
EE05	0.200	0.200	0.100	0.100	0.2715	0.387			0.1	0.1	0.325	0.45
EE06	0.200	0.200	0.100	0.100	0.2228	0.2256			0.1	0.1	0.49	0.5
EE07	0.200	0.200	0.100	0.100	0.04975	0.0498			0.1	0.1	0.065	0.07
EE08	0.200	0.200	0.100	0.100	0.06225	0.0759			0.1	0.1	0.085	0.11
EE09	0.200	0.200	0.100	0.100	0.0489	0.0492			0.1	0.1	0.06	0.06
EE10	0.200	0.200	0.100	0.100	0.0915	0.1326			0.1	0.1	0.115	0.17
EW01	0.200	0.200	0.100	0.100	0.2255	0.399			0.1	0.1	0.5075	0.95
EW02	0.200	0.200	0.100	0.100	0.048975	0.0492			0.1	0.1	0.0625	0.065
EW03	0.200	0.200	0.100	0.100	0.0488	0.0492			0.1	0.1	0.0575	0.06

**TABLE I-9
EXPOSURE POINT CONCENTRATIONS FOR
Molybdenum**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	1.400	1.800	1.000	1.000	1.400	1.800	1.400	1.800	1.400	1.800	1.400	1.800
EE02	47.200	85.000	1.000	1.000	47.200	85.000	47.200	85.000	47.200	85.000	47.200	85.000
EE03	21.500	25.000	1.000	1.000	21.500	25.000	21.500	25.000	21.500	25.000	21.500	25.000
EE04	10.300	17.000	1.000	1.000	10.300	17.000	10.300	17.000	10.300	17.000	10.300	17.000
EE05	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
EE06	7.300	11.000	1.000	1.000	7.300	11.000	7.300	11.000	7.300	11.000	7.300	11.000
EE07	10.900	13.000	1.000	1.000	10.900	13.000	10.900	13.000	10.900	13.000	10.900	13.000
EE08	4.250	7.200	1.000	1.000	4.250	7.200	4.250	7.200	4.250	7.200	4.250	7.200
EE09	3.400	5.800	1.000	1.000	3.400	5.800	3.400	5.800	3.400	5.800	3.400	5.800
EE10	3.300	5.600	1.000	1.000	3.300	5.600	3.300	5.600	3.300	5.600	3.300	5.600
EW01	2.500	3.200	1.000	1.000	2.500	3.200	2.500	3.200	2.500	3.200	2.500	3.200
EW02	1.500	2.000	1.000	1.000	1.500	2.000	1.500	2.000	1.500	2.000	1.500	2.000
EW03	1.350	1.700	1.000	1.000	1.350	1.700	1.350	1.700	1.350	1.700	1.350	1.700

**TABLE I-9
EXPOSURE POINT CONCENTRATIONS FOR
Molybdenum**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	1.400	1.800	1.400	1.800	1.621	1.992			14	18	1.825	2.4
EE02	47.200	85.000	47.200	85.000	3.846	4.956			472	850	4.75	5.9
EE03	21.500	25.000	21.500	25.000	1.2085	1.428			215	250	1.425	1.7
EE04	10.300	17.000	10.300	17.000	2.018	3.04			103	170	2.5	3.8
EE05	1.000	1.000	1.000	1.000	0.8806	0.989			10	10	1.07	1.15
EE06	7.300	11.000	7.300	11.000	5.5195	6.292			73	110	12.2	14.3
EE07	10.900	13.000	10.900	13.000	0.995	0.996			109	130	1.3	1.4
EE08	4.250	7.200	4.250	7.200	0.85125	1.0125			42.5	72	1.125	1.25
EE09	3.400	5.800	3.400	5.800	1.545	2.106			34	58	1.9	2.6
EE10	3.300	5.600	3.300	5.600	1.011	1.014			33	56	1.25	1.3
EW01	2.500	3.200	2.500	3.200	23.05	40.74			25	32	51.85	97
EW02	1.500	2.000	1.500	2.000	2.02	2.4			15	20	2.6	3.2
EW03	1.350	1.700	1.350	1.700	0.6174	0.984			13.5	17	0.7425	1.2

**TABLE I-10
EXPOSURE POINT CONCENTRATIONS FOR
Nickel**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	2.000	2.000	1.200	1.200	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042
EE02	2.000	2.000	1.200	1.200	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042
EE03	2.000	2.000	1.200	1.200	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042
EE04	2.000	2.000	1.570	2.100	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042
EE05	2.000	2.000	1.570	2.100	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042
EE06	2.000	2.000	1.570	2.100	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042
EE07	1.475	2.000	1.700	2.100	1.475	2.000	1.475	2.000	0.031	0.042	0.031	0.042
EE08	1.500	2.000	1.800	1.800	1.500	2.000	1.500	2.000	0.032	0.042	0.032	0.042
EE09	1.700	2.000	1.530	2.000	1.700	2.000	1.700	2.000	0.036	0.042	0.036	0.042
EE10	2.000	2.000	1.530	2.000	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042
EW01	6.900	9.900	1.000	1.000	6.900	9.900	6.900	9.900	0.145	0.208	0.145	0.208
EW02	1.650	2.000	1.000	1.000	1.650	2.000	1.650	2.000	0.035	0.042	0.035	0.042
EW03	1.600	2.000	1.900	1.900	1.600	2.000	1.600	2.000	0.034	0.042	0.034	0.042

**TABLE I-10
EXPOSURE POINT CONCENTRATIONS FOR
Nickel**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.042	0.042	0.042	0.042	6.8635	8			20	20	7.45	8
EE02	0.042	0.042	0.042	0.042	47.934	48.216			20	20	60.05	62.7
EE03	0.042	0.042	0.042	0.042	13.81	17.372			20	20	16.2	20.2
EE04	0.042	0.042	0.042	0.042	21.8145	25.149			20	20	26.7	30.3
EE05	0.042	0.042	0.042	0.042	200.47	258.18			20	20	248.5	331
EE06	0.042	0.042	0.042	0.042	135.033	228.8			20	20	303.9	520
EE07	0.031	0.042	0.031	0.042	19.9365	36.636			14.75	20	27.75	51.6
EE08	0.032	0.042	0.032	0.042	21.024	32.319			15	20	27	39.9
EE09	0.036	0.042	0.036	0.042	65.6575	107.42			17	20	80.25	131
EE10	0.042	0.042	0.042	0.042	41.703	75.426			20	20	53.1	96.7
EW01	0.145	0.208	0.145	0.208	1002.1	1751.4			69	99	2243	4170
EW02	0.035	0.042	0.035	0.042	51.675	78.75			16.5	20	67.5	105
EW03	0.034	0.042	0.034	0.042	12.551	20.592			16	20	14.45	23.4

**TABLE I-11
EXPOSURE POINT CONCENTRATIONS FOR
Selenium**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	2.000	2.000	1.210	1.500	0.343	0.343	0.343	0.343	0.018	0.018	0.018	0.018
EE02	2.200	2.400	1.210	1.500	0.377	0.411	0.377	0.411	0.020	0.022	0.020	0.022
EE03	2.000	2.000	1.210	1.500	0.343	0.343	0.343	0.343	0.018	0.018	0.018	0.018
EE04	2.000	2.000	0.960	1.700	0.343	0.343	0.343	0.343	0.018	0.018	0.018	0.018
EE05	2.000	2.000	0.960	1.700	0.343	0.343	0.343	0.343	0.018	0.018	0.018	0.018
EE06	3.000	4.000	0.960	1.700	0.514	0.686	0.514	0.686	0.027	0.037	0.027	0.037
EE07	1.960	2.000	0.510	0.510	0.336	0.343	0.336	0.343	0.018	0.018	0.018	0.018
EE08	2.240	2.480	0.670	0.670	0.384	0.425	0.384	0.425	0.020	0.023	0.020	0.023
EE09	3.000	4.000	0.710	0.980	0.514	0.686	0.514	0.686	0.027	0.037	0.027	0.037
EE10	19.000	35.200	0.710	0.980	3.256	6.032	3.256	6.032	0.173	0.321	0.173	0.321
EW01	2.000	2.000	1.017	1.100	0.343	0.343	0.343	0.343	0.018	0.018	0.018	0.018
EW02	3.160	4.000	1.017	1.100	0.542	0.686	0.542	0.686	0.029	0.037	0.029	0.037
EW03	2.240	2.480	1.017	1.100	0.384	0.425	0.384	0.425	0.020	0.023	0.020	0.023

**TABLE I-11
EXPOSURE POINT CONCENTRATIONS FOR
Selenium**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.018	0.018	0.018	0.018	0.874	1.25			2.5	2.5	0.925	1.25
EE02	0.020	0.022	0.020	0.022	0.6332	1.008			2.75	3	0.77	1.2
EE03	0.018	0.018	0.018	0.018	0.51	0.516			2.5	2.5	0.6	0.6
EE04	0.018	0.018	0.018	0.018	0.373	0.498			2.5	2.5	0.455	0.6
EE05	0.018	0.018	0.018	0.018	0.2495	0.2496			2.5	2.5	0.305	0.32
EE06	0.027	0.037	0.027	0.037	0.34305	0.484			3.75	5	0.765	1.1
EE07	0.018	0.018	0.018	0.018	0.375025	0.498			2.45	2.5	0.4775	0.6
EE08	0.020	0.023	0.020	0.023	0.50175	0.5175			2.8	3.1	0.675	0.75
EE09	0.027	0.037	0.027	0.037	0.36805	0.486			3.75	5	0.4525	0.6
EE10	0.173	0.321	0.173	0.321	0.1677	0.2262			23.75	44	0.21	0.29
EW01	0.018	0.018	0.018	0.018	0.525	0.798			2.5	2.5	1.1075	1.9
EW02	0.029	0.037	0.029	0.037	0.2563	0.2625			3.95	5	0.3275	0.35
EW03	0.020	0.023	0.020	0.023	0.3714	0.492			2.8	3.1	0.4425	0.6

**TABLE I-12
EXPOSURE POINT CONCENTRATIONS FOR
Silver**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.012	0.014	0.650	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EE02	0.011	0.012	0.650	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EE03	0.023	0.036	0.650	0.650	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
EE04	0.010	0.010	0.320	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EE05	0.030	0.050	0.320	0.320	0.000	0.001	0.000	0.001	0.001	0.002	0.001	0.002
EE06	0.010	0.010	0.320	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EE07	0.010	0.010	0.320	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EE08	0.024	0.038	1.280	1.700	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
EE09	0.019	0.028	1.280	1.700	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
EE10	0.010	0.010	1.280	1.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EW01	0.017	0.024	0.747	0.820	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
EW02	0.018	0.026	0.747	0.820	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
EW03	0.010	0.010	0.470	0.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**TABLE I-12
EXPOSURE POINT CONCENTRATIONS FOR
Silver**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.000	0.000	0.000	0.000	6.348	11.7			0.06	0.07	6.45	11.7
EE02	0.000	0.000	0.000	0.000	1.733	2.478			0.055	0.06	2.125	2.95
EE03	0.001	0.001	0.001	0.001	0.762	1.008			0.115	0.18	0.9	1.2
EE04	0.000	0.000	0.000	0.000	0.489	0.498			0.05	0.05	0.6	0.6
EE05	0.001	0.002	0.001	0.002	8.968	9.594			0.15	0.25	11	12.3
EE06	0.000	0.000	0.000	0.000	6.358	10.648			0.05	0.05	14.3	24.2
EE07	0.000	0.000	0.000	0.000	0.8525	1.207			0.05	0.05	1.15	1.7
EE08	0.001	0.001	0.001	0.001	0.82575	1.134			0.12	0.19	1.075	1.4
EE09	0.001	0.001	0.001	0.001	4.4905	5.822			0.095	0.14	5.5	7.1
EE10	0.000	0.000	0.000	0.000	2.514	4.524			0.05	0.05	3.2	5.8
EW01	0.001	0.001	0.001	0.001	8.316	15.12			0.085	0.12	11.25	18.9
EW02	0.001	0.001	0.001	0.001	2.7045	4.425			0.09	0.13	3.55	5.9
EW03	0.000	0.000	0.000	0.000	0.774	1.056			0.05	0.05	0.9	1.2

**TABLE I-13
EXPOSURE POINT CONCENTRATIONS FOR
Pentachlorophenol**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.028	0.046	0.800	0.800	42.653	70.723	37.321	61.883	289.834	289.834	193.223	193.223
EE02	0.059	0.086	0.800	0.800	90.173	132.421	78.901	115.869	289.834	289.834	193.223	193.223
EE03	0.031	0.042	0.800	0.800	47.611	64.043	41.659	56.037	289.834	289.834	193.223	193.223
EE04	0.022	0.022	3.200	3.200	33.763	34.629	29.543	30.300	289.834	289.834	193.223	193.223
EE05	0.310	0.406	3.200	3.200	476.905	624.910	417.292	546.797	289.834	289.834	193.223	193.223
EE06	0.041	0.069	3.200	3.200	63.503	106.827	55.565	93.474	289.834	289.834	193.223	193.223
EE07	0.048	0.053	3.200	3.200	74.236	81.306	64.957	71.143	289.834	289.834	193.223	193.223
EE08	0.071	0.100	3.200	3.200	109.410	153.501	95.734	134.314	289.834	289.834	193.223	193.223
EE09	0.008	0.008	3.200	3.200	12.822	12.822	11.219	11.219	289.834	289.834	193.223	193.223
EE10	0.077	0.079	3.200	3.200	119.334	122.394	104.417	107.095	289.834	289.834	193.223	193.223
EW01	0.014	0.018	3.200	3.200	21.458	28.118	18.776	24.603	289.834	289.834	193.223	193.223
EW02	0.046	0.048	3.200	3.200	70.236	73.747	61.456	64.529	289.834	289.834	193.223	193.223
EW03	0.115	0.121	3.200	3.200	177.318	186.651	155.154	163.320	289.834	289.834	193.223	193.223

**TABLE I-13
EXPOSURE POINT CONCENTRATIONS FOR
Pentachlorophenol**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	57.408	57.408	114.815	114.815	2.51275	4.0255			25	25	2.925	4.85
EE02	57.408	57.408	114.815	114.815	5.586	7.98			25	25	7.15	10.5
EE03	57.408	57.408	114.815	114.815	2.3915	3.192			25	25	2.825	3.8
EE04	57.408	57.408	114.815	114.815	0.79425	0.8			25	25	0.975	1
EE05	57.408	57.408	114.815	114.815	6.035	8.17			25	25	7.25	9.5
EE06	57.408	57.408	114.815	114.815	2.3795	3.96			25	25	5.35	9
EE07	57.408	57.408	114.815	114.815	0.8025	0.8165			25	25	1.05	1.15
EE08	57.408	57.408	114.815	114.815	1.21575	1.6215			25	25	1.675	2.35
EE09	57.408	57.408	114.815	114.815	0.815	0.82			25	25	1	1
EE10	57.408	57.408	114.815	114.815	0.789	0.798			25	25	0.975	1
EW01	57.408	57.408	114.815	114.815	1.598	1.6			25	25	2.9	3.8
EW02	57.408	57.408	114.815	114.815	0.78325	0.7875			25	25	1	1.05
EW03	57.408	57.408	114.815	114.815	0.806	0.82			25	25	0.95	1

**TABLE I-14
EXPOSURE POINT CONCENTRATIONS FOR
Total PCBs**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.003	0.003	1.998	3.465	454.920	454.920	398.055	398.055	593.850	791.800	395.900	527.867
EE02	0.003	0.003	1.998	3.465	454.920	454.920	398.055	398.055	395.900	395.900	263.933	263.933
EE03	0.000	0.000	1.998	3.465	57.606	79.821	50.406	69.844	395.900	395.900	263.933	263.933
EE04	0.001	0.001	2.697	3.880	113.246	117.151	99.090	102.507	395.900	395.900	263.933	263.933
EE05	0.003	0.003	2.697	3.880	454.920	454.920	398.055	398.055	395.900	395.900	263.933	263.933
EE06	0.001	0.001	2.697	3.880	95.927	124.333	83.936	108.791	395.900	395.900	263.933	263.933
EE07	0.000	0.001	0.600	0.825	81.145	130.045	71.002	113.789	395.900	395.900	263.933	263.933
EE08	0.000	0.000	1.665	1.765	47.224	78.733	41.321	68.892	395.900	395.900	263.933	263.933
EE09	0.000	0.000	0.767	0.965	12.081	20.628	10.571	18.049	395.900	395.900	263.933	263.933
EE10	0.001	0.002	0.767	0.965	203.043	271.440	177.663	237.510	395.900	395.900	263.933	263.933
EW01	0.003	0.003	3.180	3.730	454.920	454.920	398.055	398.055	395.900	395.900	263.933	263.933
EW02	0.002	0.003	3.180	3.730	311.530	422.414	272.589	369.612	395.900	395.900	263.933	263.933
EW03	0.003	0.003	1.980	2.330	454.920	454.920	398.055	398.055	395.900	395.900	263.933	263.933

**TABLE I-14
EXPOSURE POINT CONCENTRATIONS FOR
Total PCBs**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	29.929	39.905	59.858	79.810	5.815	11			0.75	1	6.92	13
EE02	19.953	19.953	39.905	39.905	24.2366	26.7372			0.5	0.5	30.215	31.83
EE03	19.953	19.953	39.905	39.905	0.58233	0.8127			0.5	0.5	0.682	0.945
EE04	19.953	19.953	39.905	39.905	0.53145	0.54			0.5	0.5	0.6525	0.675
EE05	19.953	19.953	39.905	39.905	32.72	32.76			0.5	0.5	40	42
EE06	19.953	19.953	39.905	39.905	0.726525	0.9196			0.5	0.5	1.6125	2.09
EE07	19.953	19.953	39.905	39.905	0.16805	0.26057			0.5	0.5	0.229	0.367
EE08	19.953	19.953	39.905	39.905	0.1139625	0.194805			0.5	0.5	0.14425	0.2405
EE09	19.953	19.953	39.905	39.905	0.152555	0.26001			0.5	0.5	0.188	0.321
EE10	19.953	19.953	39.905	39.905	0.264765	0.34515			0.5	0.5	0.331	0.4425
EW01	19.953	19.953	39.905	39.905	9.3355	14.259			0.5	0.5	19.7325	33.95
EW02	19.953	19.953	39.905	39.905	0.6837	0.9			0.5	0.5	0.885	1.2
EW03	19.953	19.953	39.905	39.905	0.4454	0.4972			0.5	0.5	0.5225	0.565

**TABLE I-15
EXPOSURE POINT CONCENTRATIONS FOR
Aldrin**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.000	0.001	0.009	0.009	0.840	1.603	0.735	1.403	0.298	0.298	0.199	0.199
EE02	0.001	0.001	0.009	0.009	1.387	1.453	1.213	1.271	0.298	0.298	0.199	0.199
EE03	0.000	0.000	0.009	0.009	0.106	0.176	0.093	0.154	0.298	0.298	0.199	0.199
EE04	0.000	0.000	0.004	0.004	0.190	0.199	0.167	0.175	0.298	0.298	0.199	0.199
EE05	0.043	0.045	0.004	0.004	72.324	75.768	63.284	66.297	0.298	0.298	0.199	0.199
EE06	0.000	0.000	0.004	0.004	0.572	0.584	0.500	0.511	0.298	0.298	0.199	0.199
EE07	0.000	0.001	0.003	0.003	0.522	0.962	0.457	0.842	0.298	0.298	0.199	0.199
EE08	0.001	0.001	0.009	0.009	1.368	2.326	1.197	2.035	0.298	0.298	0.199	0.199
EE09	0.000	0.000	0.009	0.009	0.074	0.133	0.064	0.116	0.298	0.298	0.199	0.199
EE10	0.000	0.000	0.009	0.009	0.272	0.282	0.238	0.247	0.298	0.298	0.199	0.199
EW01	0.001	0.001	0.017	0.017	0.877	1.588	0.768	1.390	0.298	0.298	0.199	0.199
EW02	0.000	0.000	0.017	0.017	0.607	0.846	0.531	0.740	0.298	0.298	0.199	0.199
EW03	0.001	0.001	0.017	0.017	0.963	0.977	0.842	0.855	0.298	0.298	0.199	0.199

**TABLE I-15
EXPOSURE POINT CONCENTRATIONS FOR
Aldrin**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.062	0.062	0.123	0.123	0.046075	0.08715			0.025	0.025	0.055	0.105
EE02	0.062	0.062	0.123	0.123	0.0838	0.084			0.025	0.025	0.105	0.11
EE03	0.062	0.062	0.123	0.123	0.00514	0.0086			0.025	0.025	0.006	0.01
EE04	0.062	0.062	0.123	0.123	0.004275	0.0044			0.025	0.025	0.00525	0.0055
EE05	0.062	0.062	0.123	0.123	0.859	0.86			0.025	0.025	1.05	1.1
EE06	0.062	0.062	0.123	0.123	0.020915	0.02115			0.025	0.025	0.046	0.047
EE07	0.062	0.062	0.123	0.123	0.0050715	0.00923			0.025	0.025	0.00705	0.013
EE08	0.062	0.062	0.123	0.123	0.01584	0.02754			0.025	0.025	0.02	0.034
EE09	0.062	0.062	0.123	0.123	0.00444	0.008019			0.025	0.025	0.005475	0.0099
EE10	0.062	0.062	0.123	0.123	0.001719	0.001722			0.025	0.025	0.002125	0.0022
EW01	0.062	0.062	0.123	0.123	0.05155	0.0861			0.025	0.025	0.11325	0.205
EW02	0.062	0.062	0.123	0.123	0.0063625	0.008625			0.025	0.025	0.00825	0.0115
EW03	0.062	0.062	0.123	0.123	0.004184	0.004268			0.025	0.025	0.004925	0.005

**TABLE I-16
EXPOSURE POINT CONCENTRATIONS FOR
alpha-Chlordane**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.000	0.000	0.009	0.009	1.331	2.541	1.165	2.223	1.759	1.759	1.173	1.173
EE02	0.000	0.000	0.009	0.009	2.198	2.302	1.923	2.015	1.759	1.759	1.173	1.173
EE03	0.000	0.000	0.009	0.009	0.168	0.280	0.147	0.245	1.759	1.759	1.173	1.173
EE04	0.000	0.000	0.004	0.004	0.302	0.316	0.264	0.277	1.759	1.759	1.173	1.173
EE05	0.070	0.096	0.004	0.004	567.672	776.691	496.713	679.604	1.759	1.759	1.173	1.173
EE06	0.000	0.000	0.004	0.004	0.182	0.187	0.159	0.164	1.759	1.759	1.173	1.173
EE07	0.000	0.000	0.003	0.003	0.202	0.282	0.177	0.246	1.759	1.759	1.173	1.173
EE08	0.000	0.000	0.009	0.009	0.125	0.136	0.109	0.119	1.759	1.759	1.173	1.173
EE09	0.000	0.000	0.009	0.009	0.034	0.045	0.029	0.039	1.759	1.759	1.173	1.173
EE10	0.000	0.000	0.009	0.009	0.432	0.447	0.378	0.391	1.759	1.759	1.173	1.173
EW01	0.000	0.000	0.017	0.017	1.391	2.517	1.217	2.203	1.759	1.759	1.173	1.173
EW02	0.000	0.000	0.017	0.017	0.962	1.340	0.841	1.173	1.759	1.759	1.173	1.173
EW03	0.000	0.000	0.017	0.017	1.526	1.549	1.335	1.355	1.759	1.759	1.173	1.173

**TABLE I-16
EXPOSURE POINT CONCENTRATIONS FOR
alpha-Chlordane**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.173	0.173	0.347	0.347	0.046075	0.08715			0.025	0.025	0.055	0.105
EE02	0.173	0.173	0.347	0.347	0.0838	0.084			0.025	0.025	0.105	0.11
EE03	0.173	0.173	0.347	0.347	0.00514	0.0086			0.025	0.025	0.006	0.01
EE04	0.173	0.173	0.347	0.347	0.004275	0.0044			0.025	0.025	0.00525	0.0055
EE05	0.173	0.173	0.347	0.347	4.096	7.332			0.025	0.025	5.2	9.4
EE06	0.173	0.173	0.347	0.347	0.004205	0.00423			0.025	0.025	0.00925	0.0095
EE07	0.173	0.173	0.347	0.347	0.00128775	0.001704			0.025	0.025	0.001725	0.0024
EE08	0.173	0.173	0.347	0.347	0.0008565	0.0008625			0.025	0.025	0.00115	0.00125
EE09	0.173	0.173	0.347	0.347	0.001281	0.001701			0.025	0.025	0.001575	0.0021
EE10	0.173	0.173	0.347	0.347	0.001719	0.001722			0.025	0.025	0.002125	0.0022
EW01	0.173	0.173	0.347	0.347	0.05165	0.0861			0.025	0.025	0.11325	0.205
EW02	0.173	0.173	0.347	0.347	0.0063625	0.008625			0.025	0.025	0.00825	0.0115
EW03	0.173	0.173	0.347	0.347	0.004184	0.004268			0.025	0.025	0.004925	0.005

**TABLE I-17
EXPOSURE POINT CONCENTRATIONS FOR
Dieldrin**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.019	0.037	0.017	0.017	0.164	0.313	0.144	0.273	0.001	0.001	0.001	0.001
EE02	0.033	0.035	0.017	0.017	0.280	0.297	0.245	0.260	0.001	0.001	0.001	0.001
EE03	0.002	0.004	0.017	0.017	0.021	0.035	0.018	0.031	0.001	0.001	0.001	0.001
EE04	0.004	0.005	0.008	0.008	0.038	0.039	0.033	0.034	0.001	0.001	0.001	0.001
EE05	0.727	0.727	0.008	0.008	6.188	6.188	5.415	5.415	0.002	0.002	0.001	0.001
EE06	0.003	0.003	0.008	0.008	0.023	0.024	0.020	0.021	0.001	0.001	0.001	0.001
EE07	0.003	0.004	0.007	0.007	0.025	0.036	0.022	0.031	0.001	0.001	0.001	0.001
EE08	0.021	0.039	0.017	0.017	0.175	0.336	0.153	0.294	0.001	0.001	0.001	0.001
EE09	0.000	0.001	0.017	0.017	0.004	0.006	0.004	0.005	0.001	0.001	0.001	0.001
EE10	0.006	0.007	0.017	0.017	0.054	0.056	0.047	0.049	0.001	0.001	0.001	0.001
EW01	0.020	0.037	0.033	0.033	0.173	0.313	0.151	0.274	0.001	0.001	0.001	0.001
EW02	0.014	0.019	0.033	0.033	0.120	0.166	0.105	0.145	0.001	0.001	0.001	0.001
EW03	0.023	0.024	0.033	0.033	0.195	0.200	0.171	0.175	0.001	0.001	0.001	0.001

**TABLE I-17
EXPOSURE POINT CONCENTRATIONS FOR
Dieldrin**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.001	0.001	0.002	0.002	0.088	0.166			0.05	0.05	0.105	0.2
EE02	0.001	0.001	0.002	0.002	0.1655	0.1672			0.05	0.05	0.2075	0.22
EE03	0.001	0.001	0.002	0.002	0.010023	0.01677			0.05	0.05	0.0117	0.0195
EE04	0.001	0.001	0.002	0.002	0.00835	0.0084			0.05	0.05	0.01025	0.0105
EE05	0.001	0.001	0.002	0.002	16.28	17.94			0.061	0.072	20	23
EE06	0.001	0.001	0.002	0.002	0.0082925	0.00836			0.05	0.05	0.01825	0.019
EE07	0.001	0.001	0.002	0.002	0.0024985	0.003337			0.05	0.05	0.00335	0.0047
EE08	0.001	0.001	0.002	0.002	0.01739025	0.03312			0.05	0.05	0.025025	0.048
EE09	0.001	0.001	0.002	0.002	0.0024805	0.003321			0.05	0.05	0.00305	0.0041
EE10	0.001	0.001	0.002	0.002	0.0033165	0.003318			0.05	0.05	0.0041	0.00425
EW01	0.001	0.001	0.002	0.002	0.09955	0.1659			0.05	0.05	0.21825	0.395
EW02	0.001	0.001	0.002	0.002	0.01235	0.0165			0.061	0.072	0.016	0.022
EW03	0.001	0.001	0.002	0.002	0.00828	0.00836			0.05	0.05	0.00975	0.01

**TABLE I-18
EXPOSURE POINT CONCENTRATIONS FOR
Heptachlor**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.001	0.003	0.078	0.081	0.506	0.966	0.443	0.845	0.066	0.066	0.044	0.044
EE02	0.002	0.002	0.078	0.081	0.836	0.875	0.731	0.766	0.066	0.066	0.044	0.044
EE03	0.000	0.000	0.078	0.081	0.064	0.106	0.056	0.093	0.066	0.066	0.044	0.044
EE04	0.000	0.000	0.078	0.081	0.115	0.120	0.100	0.105	0.066	0.066	0.044	0.044
EE05	0.238	0.238	0.078	0.081	91.253	91.253	79.847	79.847	0.066	0.066	0.044	0.044
EE06	0.001	0.002	0.078	0.081	0.352	0.637	0.308	0.557	0.066	0.066	0.044	0.044
EE07	0.001	0.002	0.013	0.016	0.403	0.758	0.352	0.664	0.066	0.066	0.044	0.044
EE08	0.003	0.006	0.042	0.042	1.097	2.143	0.960	1.875	0.066	0.066	0.044	0.044
EE09	0.000	0.000	0.042	0.042	0.025	0.033	0.022	0.029	0.066	0.066	0.044	0.044
EE10	0.007	0.009	0.042	0.042	2.510	3.552	2.196	3.108	0.066	0.066	0.044	0.044
EW01	0.001	0.002	0.017	0.017	0.529	0.957	0.463	0.837	0.066	0.066	0.044	0.044
EW02	0.001	0.001	0.017	0.017	0.366	0.510	0.320	0.446	0.066	0.066	0.044	0.044
EW03	0.002	0.002	0.017	0.017	0.580	0.589	0.508	0.515	0.066	0.066	0.044	0.044

**TABLE I-18
EXPOSURE POINT CONCENTRATIONS FOR
Heptachlor**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.020	0.020	0.041	0.041	0.046075	0.08715			0.025	0.025	0.055	0.105
EE02	0.020	0.020	0.041	0.041	0.0838	0.084			0.025	0.025	0.105	0.11
EE03	0.020	0.020	0.041	0.041	0.00514	0.0086			0.025	0.025	0.006	0.01
EE04	0.020	0.020	0.041	0.041	0.004275	0.0044			0.025	0.025	0.00525	0.0055
EE05	0.020	0.020	0.041	0.041	2.964	3.354			0.025	0.025	3.6	3.9
EE06	0.020	0.020	0.041	0.041	0.020815	0.0374			0.025	0.025	0.047	0.085
EE07	0.020	0.020	0.041	0.041	0.00647075	0.01207			0.025	0.025	0.009025	0.017
EE08	0.020	0.020	0.041	0.041	0.02149125	0.04212			0.025	0.025	0.026625	0.052
EE09	0.020	0.020	0.041	0.041	0.0025315	0.003362			0.025	0.025	0.0031	0.0041
EE10	0.020	0.020	0.041	0.041	0.02592	0.03588			0.025	0.025	0.0325	0.046
EW01	0.020	0.020	0.041	0.041	0.05165	0.0861			0.025	0.025	0.11325	0.205
EW02	0.020	0.020	0.041	0.041	0.0063625	0.008625			0.025	0.025	0.00825	0.0115
EW03	0.020	0.020	0.041	0.041	0.004184	0.004268			0.025	0.025	0.004925	0.005

**TABLE I-19
EXPOSURE POINT CONCENTRATIONS FOR
Heptachlor epoxide**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.001	0.003	0.009	0.009	0.506	0.966	0.443	0.845	0.066	0.066	0.044	0.044
EE02	0.002	0.002	0.009	0.009	0.836	0.875	0.731	0.766	0.066	0.066	0.044	0.044
EE03	0.000	0.000	0.009	0.009	0.064	0.106	0.056	0.093	0.066	0.066	0.044	0.044
EE04	0.000	0.000	0.004	0.004	0.115	0.120	0.100	0.105	0.066	0.066	0.044	0.044
EE05	0.113	0.119	0.004	0.004	43.580	45.655	38.132	39.948	0.066	0.066	0.044	0.044
EE06	0.000	0.000	0.004	0.004	0.069	0.071	0.061	0.062	0.066	0.066	0.044	0.044
EE07	0.000	0.000	0.003	0.003	0.077	0.107	0.067	0.094	0.066	0.066	0.044	0.044
EE08	0.000	0.000	0.009	0.009	0.047	0.052	0.041	0.045	0.217	0.368	0.145	0.246
EE09	0.000	0.000	0.009	0.009	0.013	0.017	0.011	0.015	0.162	0.258	0.108	0.172
EE10	0.000	0.000	0.009	0.009	0.164	0.170	0.144	0.149	0.112	0.158	0.075	0.105
EW01	0.001	0.002	0.017	0.017	0.529	0.957	0.463	0.837	0.066	0.066	0.044	0.044
EW02	0.001	0.001	0.017	0.017	0.366	0.510	0.320	0.446	0.066	0.066	0.044	0.044
EW03	0.002	0.002	0.017	0.017	0.580	0.589	0.508	0.515	0.066	0.066	0.044	0.044

**TABLE I-19
EXPOSURE POINT CONCENTRATIONS FOR
Heptachlor epoxide**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.020	0.020	0.041	0.041	0.046075	0.08715			0.025	0.025	0.055	0.105
EE02	0.020	0.020	0.041	0.041	0.0838	0.084			0.025	0.025	0.105	0.11
EE03	0.020	0.020	0.041	0.041	0.00514	0.0086			0.025	0.025	0.006	0.01
EE04	0.020	0.020	0.041	0.041	0.004275	0.0044			0.025	0.025	0.00525	0.0055
EE05	0.020	0.020	0.041	0.041	0.859	0.86			0.025	0.025	1.05	1.1
EE06	0.020	0.020	0.041	0.041	0.004205	0.00423			0.025	0.025	0.00925	0.0095
EE07	0.020	0.020	0.041	0.041	0.00128775	0.001704			0.025	0.025	0.001725	0.0024
EE08	0.067	0.114	0.134	0.228	0.0008565	0.0008625			0.0825	0.14	0.00115	0.00125
EE09	0.050	0.080	0.100	0.160	0.001281	0.001701			0.0615	0.098	0.001575	0.0021
EE10	0.035	0.049	0.069	0.098	0.001719	0.001722			0.0425	0.06	0.002125	0.0022
EW01	0.020	0.020	0.041	0.041	0.05165	0.0861			0.025	0.025	0.11325	0.205
EW02	0.020	0.020	0.041	0.041	0.0063625	0.008625			0.025	0.025	0.00825	0.0115
EW03	0.020	0.020	0.041	0.041	0.004184	0.004268			0.025	0.025	0.004925	0.005

**TABLE I-20
EXPOSURE POINT CONCENTRATIONS FOR
Endosulfan Sulfate**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.009	0.017	0.017	0.017	0.385	0.733	0.337	0.641	0.010	0.010	0.006	0.006
EE02	0.016	0.016	0.017	0.017	0.657	0.697	0.575	0.610	0.010	0.010	0.006	0.006
EE03	0.001	0.002	0.017	0.017	0.054	0.083	0.048	0.072	0.010	0.010	0.006	0.006
EE04	0.002	0.002	0.008	0.008	0.089	0.091	0.078	0.080	0.010	0.010	0.006	0.006
EE05	1.002	1.168	0.008	0.008	42.465	49.486	37.157	43.300	0.010	0.010	0.006	0.006
EE06	0.001	0.001	0.008	0.008	0.054	0.057	0.048	0.050	0.010	0.010	0.006	0.006
EE07	0.001	0.002	0.007	0.007	0.059	0.083	0.052	0.073	0.010	0.010	0.006	0.006
EE08	0.001	0.001	0.017	0.017	0.037	0.039	0.032	0.034	0.010	0.010	0.006	0.006
EE09	0.000	0.000	0.017	0.017	0.010	0.013	0.009	0.012	0.010	0.010	0.006	0.006
EE10	0.003	0.003	0.017	0.017	0.126	0.131	0.110	0.114	0.010	0.010	0.006	0.006
EW01	0.010	0.017	0.033	0.033	0.406	0.734	0.355	0.642	0.010	0.010	0.006	0.006
EW02	0.007	0.009	0.033	0.033	0.282	0.388	0.247	0.340	0.010	0.010	0.006	0.006
EW03	0.011	0.011	0.033	0.033	0.457	0.469	0.400	0.410	0.010	0.010	0.006	0.006

TABLE I-20
EXPOSURE POINT CONCENTRATIONS FOR
Endosulfan Sulfate

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.006	0.006	0.011	0.011	0.088	0.166			0.05	0.05	0.105	0.2
EE02	0.006	0.006	0.011	0.011	0.1655	0.1672			0.05	0.05	0.2075	0.22
EE03	0.006	0.006	0.011	0.011	0.0110058	0.01677			0.05	0.05	0.01287	0.0195
EE04	0.006	0.006	0.011	0.011	0.00835	0.0084			0.05	0.05	0.01025	0.0105
EE05	0.006	0.006	0.011	0.011	2.1262	2.6144			0.05	0.05	2.57	3.04
EE06	0.006	0.006	0.011	0.011	0.0082925	0.00836			0.05	0.05	0.01825	0.019
EE07	0.006	0.006	0.011	0.011	0.0024985	0.003337			0.05	0.05	0.00335	0.0047
EE08	0.006	0.006	0.011	0.011	0.00165825	0.0016605			0.05	0.05	0.002225	0.0024
EE09	0.006	0.006	0.011	0.011	0.0024805	0.003321			0.05	0.05	0.00305	0.0041
EE10	0.006	0.006	0.011	0.011	0.0033165	0.003318			0.05	0.05	0.0041	0.00425
EW01	0.006	0.006	0.011	0.011	0.09955	0.1659			0.05	0.05	0.21825	0.395
EW02	0.006	0.006	0.011	0.011	0.01235	0.0165			0.05	0.05	0.016	0.022
EW03	0.006	0.006	0.011	0.011	0.00828	0.00836			0.05	0.05	0.00975	0.01

**TABLE I-21
EXPOSURE POINT CONCENTRATIONS FOR
Benzidine**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	1.349	2.236	1.250	1.250	8.963	14.857	8.963	14.857	0.175	0.175	0.175	0.175
EE02	2.168	4.254	1.250	1.250	14.408	28.268	14.408	28.268	0.175	0.175	0.175	0.175
EE03	1.533	2.067	1.250	1.250	10.188	13.736	10.188	13.736	0.175	0.175	0.175	0.175
EE04	1.080	1.097	5.000	5.000	7.174	7.291	7.174	7.291	0.175	0.175	0.175	0.175
EE05	15.128	19.498	5.000	5.000	100.527	129.569	100.527	129.569	0.175	0.175	0.175	0.175
EE06	2.020	3.397	5.000	5.000	13.423	22.574	13.423	22.574	0.175	0.175	0.175	0.175
EE07	2.349	2.529	5.000	5.000	15.607	16.807	15.607	16.807	0.175	0.175	0.175	0.175
EE08	4.473	4.874	5.000	5.000	29.725	32.387	29.725	32.387	0.175	0.175	0.175	0.175
EE09	0.406	0.406	5.000	5.000	2.700	2.700	2.700	2.700	0.175	0.175	0.175	0.175
EE10	3.878	4.003	5.000	5.000	25.771	26.602	25.771	26.602	0.175	0.175	0.175	0.175
EW01	0.692	0.908	5.000	5.000	4.599	6.031	4.599	6.031	0.175	0.175	0.175	0.175
EW02	2.261	2.369	5.000	5.000	15.027	15.743	15.027	15.743	0.175	0.175	0.175	0.175
EW03	5.723	5.914	5.000	5.000	38.033	39.301	38.033	39.301	0.175	0.175	0.175	0.175

**TABLE I-21
EXPOSURE POINT CONCENTRATIONS FOR
Benzidine**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	0.175	0.175	0.175	0.175	3.8875	6.225			25	25	4.525	7.5
EE02	0.175	0.175	0.175	0.175	6.4044	12.54			25	25	8.41	16.5
EE03	0.175	0.175	0.175	0.175	3.767	5.04			25	25	4.45	6
EE04	0.175	0.175	0.175	0.175	1.2425	1.245			25	25	1.525	1.55
EE05	0.175	0.175	0.175	0.175	9.355	12.47			25	25	11.25	14.5
EE06	0.175	0.175	0.175	0.175	3.70275	6.16			25	25	8.325	14
EE07	0.175	0.175	0.175	0.175	1.24375	1.245			25	25	1.625	1.75
EE08	0.175	0.175	0.175	0.175	2.4945	2.5185			25	25	3.35	3.65
EE09	0.175	0.175	0.175	0.175	1.26325	1.271			25	25	1.55	1.55
EE10	0.175	0.175	0.175	0.175	1.254	1.26			25	25	1.55	1.6
EW01	0.175	0.175	0.175	0.175	2.52	2.52			25	25	4.575	6
EW02	0.175	0.175	0.175	0.175	1.23375	1.2375			25	25	1.575	1.65
EW03	0.175	0.175	0.175	0.175	1.2735	1.276			25	25	1.5	1.55

**TABLE I-22
EXPOSURE POINT CONCENTRATIONS FOR
High MW PAHs**

SECTION	Plants		Crayfish		Other Aquatic Invertebrates		Terrestrial Invertebrates		Reptiles/ Amphibians		Birds	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)
EE01	0.013	0.023	1.320	1.320	583.185	1054.374	510.287	922.577	2873.077	4309.616	1915.385	2873.077
EE02	0.053	0.053	1.320	1.320	2423.548	2423.548	2120.605	2120.605	3591.347	4309.616	2394.231	2873.077
EE03	0.036	0.052	1.320	1.320	1637.862	2363.170	1433.129	2067.774	3591.347	4309.616	2394.231	2873.077
EE04	0.041	0.053	5.200	5.200	1867.674	2423.548	1634.214	2120.605	3591.347	4309.616	2394.231	2873.077
EE05	0.053	0.053	5.200	5.200	2423.548	2423.548	2120.605	2120.605	3979.212	4309.616	2652.808	2873.077
EE06	0.006	0.011	5.200	5.200	289.492	489.225	253.305	428.072	4309.616	4309.616	2873.077	2873.077
EE07	0.008	0.013	5.200	5.200	362.349	593.593	317.055	519.394	4309.616	4309.616	2873.077	2873.077
EE08	0.008	0.008	5.200	5.200	350.660	362.515	306.828	317.201	4309.616	4309.616	2873.077	2873.077
EE09	0.001	0.001	5.200	5.200	38.125	44.010	33.360	38.509	4309.616	4309.616	2873.077	2873.077
EE10	0.007	0.008	5.200	5.200	324.826	379.876	284.223	332.392	4309.616	4309.616	2873.077	2873.077
EW01	0.003	0.005	5.200	5.200	158.006	225.765	138.256	197.544	4309.616	4309.616	2873.077	2873.077
EW02	0.007	0.007	5.200	5.200	328.280	328.834	287.245	287.730	4309.616	4309.616	2873.077	2873.077
EW03	0.014	0.026	5.200	5.200	634.788	1171.387	555.439	1024.964	4309.616	4309.616	2873.077	2873.077

**TABLE I-22
EXPOSURE POINT CONCENTRATIONS FOR
High MW PAHs**

SECTION	Mammals		Fish		SEDIMENT		SOIL		WATER		SEDIMENT	
	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (mg/kg wet)	Lower of UCL or Max (mg/kg wet)	Mean (ug/L)	Lower of UCL or Max (ug/L)	Mean (mg/kg dry)	Lower of UCL or Max (mg/kg dry)
EE01	195.447	293.171	390.895	586.342	12.86835	22.8167			10	15	15.205	27.49
EE02	244.309	293.171	488.619	586.342	92.352	163.704			12.5	15	120.2	215.4
EE03	244.309	293.171	488.619	586.342	31.24218	44.7804			12.5	15	36.948	53.31
EE04	244.309	293.171	488.619	586.342	16.5168	26.792			12.5	15	20.505	33.49
EE05	270.695	293.171	541.389	586.342	27.4831	36.0512			13.85	15	33.085	41.92
EE06	293.171	293.171	586.342	586.342	4.123025	6.8948			15	15	9.2725	15.67
EE07	293.171	293.171	586.342	586.342	1.425735	2.26632			15	15	1.9485	3.192
EE08	293.171	293.171	586.342	586.342	1.52661	1.59732			15	15	2.041	2.11
EE09	293.171	293.171	586.342	586.342	0.920485	1.05705			15	15	1.1305	1.305
EE10	293.171	293.171	586.342	586.342	0.81216	0.9204			15	15	1.009	1.18
EW01	293.171	293.171	586.342	586.342	4.2908	4.872			15	15	8.1185	11.6
EW02	293.171	293.171	586.342	586.342	1.39484	1.45468			15	15	1.777	1.78
EW03	293.171	293.171	586.342	586.342	1.13184	2.09968			15	15	1.293	2.386

Section B

Model Input/Output Exposure Point Concentrations

Chemical Name	Aldrin
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	5.09
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	4.10
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	3.23
Food Chain Multiplier - Trophic Level 4	2.67

Mean	Sediment Concentration (ug/kg)			Total Organic Carbon (mg/Kg)			Surface Water Concentration (ug/L)			
	EE01	EE02	EE03	EE04	EE05	EE06	EE07	EE08	EE09	EE10
EW01	55	105	6	5.25	1050	46	7.05	20	5.475	2.125
EW02	113.25	8.25	4.925	25600	29600	22150	10780	5675	31450	5280
EW03	8.25	4.925	2000	50450	5315	2000	5675	31450	5280	5715
EW04	0.025	0.025	0.025	29115	3050	0.025	0.025	0.025	0.025	0.025
EW05	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
EW06	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
EW07	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
EW08	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
EW09	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
EW10	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025

Invertebrates	BCF _{lipid}		
	BCF _{lipid}	123026.8771	
Aquatic Invertebrates	%Lipid	4	4921.1
Emergent Insects	BCF	4921.1	123026.9
Trophic Level 2	BAF _{lipid}	4305.9	123026.9
Forage Fish	%Lipid	3.3	4305.9
Small Mammals	BCF	4921.075	123026.9
Trophic Level 3	BAF	2460.538	123026.9
Amphibians	%Lipid	4	4921.075
Reptiles	BCF	2460.538	123026.9
Small Birds	BAF	3690.806	397032.3
	%Lipid	6	7381.613
	BCF	2460.538	397032.3
	BAF	3690.806	397032.3
	%Lipid	3	3690.806
	BCF	2460.538	397032.3
	BAF	3690.806	397032.3

Plants	%Lipids		%Moisture	
	%Lipids	%Moisture	%Lipids	%Moisture
Root	3	82	3	82
Stem	1	82	1	82
Foliage	1	83	1	83
Fruit	5	75	5	75

K _{ow}	197.8903
TSCF	0.008795
K _{oxy}	66.51011
K _{ow}	66.54011
K _{ow}	329.2006

Aldrin

	Sediment ug/Kg	Water ug/L	Plants				Invertebrates			Trophic Level 2			Trophic Level 3		
			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg			
EE01	55	0.025	33.7712634	0.09987369	0.49411511	839.813237	734.836582	123.026877	61.51343854	297.7742571	595.548514	198.516171			
EE02	105	0.025	55.7599238	0.16490201	0.81583624	1386.62038	1213.29283	123.026877	61.51343854	297.7742571	595.548514	198.516171			
EE03	6	0.025	4.25796516	0.01259232	0.06229927	105.885749	92.65003	123.026877	61.51343854	297.7742571	595.548514	198.516171			
EE04	5.25	0.025	7.65535132	0.02263961	0.1120072	190.370887	166.574526	123.026877	61.51343854	297.7742571	595.548514	198.516171			
EE05	1050	0.025	2908.35902	8.60105654	42.5528684	72324.1644	63283.6438	123.026877	61.51343854	297.7742571	595.548514	198.516171			
EE06	46	0.025	22.9912067	0.06799321	0.33638962	571.738152	500.270883	123.026877	61.51343854	297.7742571	595.548514	198.516171			
EE07	7.05	0.025	20.9884215	0.06207026	0.30708641	521.933516	456.691826	123.026877	61.51343854	297.7742571	595.548514	198.516171			
EE08	20	0.025	55.009582	0.16268298	0.80485782	1367.96111	1196.96597	123.026877	61.51343854	297.7742571	595.548514	198.516171			
EE09	5.475	0.025	2.9559148	0.0087417	0.04324867	73.5067667	64.3184209	123.026877	61.51343854	297.7742571	595.548514	198.516171			
EE10	2.125	0.025	10.951754	0.03238825	0.16023763	272.344799	238.301699	123.026877	61.51343854	297.7742571	595.548514	198.516171			
EW01	113.25	0.025	35.2859345	0.10435311	0.51627661	877.479606	767.794655	123.026877	61.51343854	297.7742571	595.548514	198.516171			
EW02	8.25	0.025	24.3991818	0.0721571	0.35699003	606.751238	530.907333	123.026877	61.51343854	297.7742571	595.548514	198.516171			
EW03	4.925	0.025	38.7080081	0.11447341	0.56634575	962.578663	842.25633	123.026877	61.51343854	297.7742571	595.548514	198.516171			

Invertebrates	BAF	Trophic Level 2	BAF
Aquatic Invertebrates	4921.07508	Forage Fish	4921.075083
Emergent Insects	4305.9407	Small Mammals	2460.537542
		Solubility	
		200	

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Trophic Level 3	
				Aquatic Invertebrates	Emergent Insects
EE01	55	25600	0.170656457	839.8132368	734.8365822
EE02	105	29600	0.28177184	1386.620381	1213.292833
EE03	6	22150	0.021516792	105.8857485	92.65002998
EE04	5.25	10780	0.038684817	190.3708872	166.5745263
EE05	1050	5675	14.6982196	72324.16437	63283.64382
EE06	46	31450	0.116181554	571.7381515	500.2708826
EE07	7.05	5280	0.106060872	521.9335157	456.6918263
EE08	20	5715	0.277980135	1367.9611114	1196.965975
EE09	5.475	29115	0.014937136	73.50676675	64.31842091
EE10	2.125	3050	0.055342541	272.3447993	238.3016994
EW01	113.25	50450	0.17831055	877.4796057	767.794655
EW02	8.25	5315	0.12329648	606.7512378	530.9073331
EW03	4.925	2000	0.195603328	962.5786626	842.2563298

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EE02	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE03	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE04	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE05	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE06	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE07	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE08	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE09	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE10	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EW01	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EW02	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EW03	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714

Aldrin

Krw 197.890335
 TSCF 0.00879518
 KStXy 66.5101116
 Klw 66.5401116
 Kcw 329.200558

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	55	25600	0.170656457	33.7712634	0.001500955	0.09982866	0.09987369	0.49411511
EE02	105	29600	0.28177184	55.7599238	0.002478235	0.16482767	0.16490201	0.81583624
EE03	6	22150	0.021516792	4.25796516	0.000189244	0.01258665	0.01259232	0.06229927
EE04	5.25	10780	0.038684817	7.65535132	0.00034024	0.0226294	0.02263961	0.1120072
EE05	1050	5675	14.69682196	2908.35902	0.129261228	8.5971787	8.60105654	42.5528684
EE06	46	31450	0.116181554	22.9912067	0.001021838	0.06796256	0.06799321	0.33638962
EE07	7.05	5280	0.106060872	20.9884215	0.000932825	0.06204228	0.06207026	0.30708641
EE08	20	5715	0.277980135	55.009582	0.002444886	0.16260964	0.16268298	0.80485782
EE09	5.475	29115	0.014937136	2.9559148	0.000131375	0.00873775	0.0087417	0.04324867
EE10	2.125	3050	0.055342541	10.951754	0.000486748	0.03237365	0.03238825	0.16023763
EW01	113.25	50450	0.17831055	35.2859345	0.001568274	0.10430606	0.10435311	0.51627661
EW02	8.25	5315	0.12329648	24.3991818	0.001084415	0.07212456	0.0721571	0.35699003
EW03	4.925	2000	0.195603328	38.7080081	0.001720367	0.1144218	0.11447341	0.56634575

Chemical Name	Aldrin
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	5.09
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	4.10
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	3.23
Food Chain Multiplier - Trophic Level 4	2.67

	Maximum			Mean			Maximum					
	Sediment Concentration (ug/kg)	Total Organic Carbon (mg/Kg)	Surface Water Concentration (ug/L)	EE01	EE02	EE03	EE01	EE02	EE03	EE01	EE02	EE03
EW01	105	205	0.025	25600	50450	0.025	25600	50450	0.025	25600	50450	0.025
EW02	110	115	0.025	29600	5315	0.025	29600	5315	0.025	29600	5315	0.025
EW03	10	5	0.025	22150	2000	0.025	22150	2000	0.025	22150	2000	0.025
EE04	5.5		0.025	10780		0.025	10780		0.025	10780		0.025
EE05	1100		0.025	5675		0.025	5675		0.025	5675		0.025
EE06	47		0.025	31450		0.025	31450		0.025	31450		0.025
EE07	13		0.025	5280		0.025	5280		0.025	5280		0.025
EE08	34		0.025	5715		0.025	5715		0.025	5715		0.025
EE09	9.9		0.025	29115		0.025	29115		0.025	29115		0.025
EE10	2.2		0.025	3050		0.025	3050		0.025	3050		0.025

Invertebrates		BCF _{lipid}	123026.8771
Aquatic Invertebrates	%Lipid	BCF	BAF _{lipid}
Emergent Insects	4	4921.1	123026.9
Trophic Level 2	3.5	4305.9	123026.9
Forage Fish	%Lipid	BAF	BAF
Small Mammals	4	4921.075	123026.9
Trophic Level 3	2	2460.538	123026.9
Amphibians	%Lipid	BCF	BAF
Reptiles	3	3690.806	397032.3
Small Birds	6	7381.613	397032.3
	2	2460.538	397032.3

Plants	%Lipids	%Moisture
Root	3	82
Stem	1	82
Foliage	1	85
Fruit	5	75

K _{ow}	197.8903
TSCF	0.008795
K _{saxy}	66.51011
K _{iw}	66.54011
K _{ow}	329.2006

Aldrin

	Sediment ug/Kg	Water ug/L	Plants				Invertebrates		Trophic Level 2			Trophic Level 3		
			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg		
EE01	105	0.025	64.4724119	0.19066795	0.94331066	1603.27982	1402.86984	123.026877	61.51343854	297.7742571	595.548514	198.516171		
EE02	110	0.025	58.4151583	0.17275449	0.85468559	1452.64992	1271.06868	123.026877	61.51343854	297.7742571	595.548514	198.516171		
EE03	10	0.025	7.0966086	0.02098721	0.10383211	176.476248	154.416717	123.026877	61.51343854	297.7742571	595.548514	198.516171		
EE04	5.5	0.025	8.01989186	0.02371769	0.111734088	199.436168	174.506647	123.026877	61.51343854	297.7742571	595.548514	198.516171		
EE05	1100	0.025	3046.85231	9.01063066	44.5791955	75768.1722	66297.1507	123.026877	61.51343854	297.7742571	595.548514	198.516171		
EE06	47	0.025	23.4910155	0.06947132	0.34370244	584.167242	511.146337	123.026877	61.51343854	297.7742571	595.548514	198.516171		
EE07	13	0.025	38.7020339	0.1144558	0.56625863	962.430596	842.126772	123.026877	61.51343854	297.7742571	595.548514	198.516171		
EE08	34	0.025	93.5162893	0.27656107	1.36825829	2325.53389	2034.84216	123.026877	61.51343854	297.7742571	595.548514	198.516171		
EE09	9.9	0.025	5.34494184	0.0158069	0.07820307	132.916345	116.301802	123.026877	61.51343854	297.7742571	595.548514	198.516171		
EE10	2.2	0.025	11.3382865	0.03353136	0.16589307	281.956969	246.712348	123.026877	61.51343854	297.7742571	595.548514	198.516171		
EW01	205	0.025	63.872994	0.18889526	0.93454044	1588.37368	1389.82697	123.026877	61.51343854	297.7742571	595.548514	198.516171		
EW02	11.5	0.025	34.0109807	0.10058262	0.49762247	845.774453	740.052646	123.026877	61.51343854	297.7742571	595.548514	198.516171		
EW03	5	0.025	39.2974701	0.11621666	0.57497031	977.237221	855.082568	123.026877	61.51343854	297.7742571	595.548514	198.516171		

Invertebrates	BAF	Trophic Level 2	BAF
Aquatic Invertebrates	4921.07508	Forage Fish	4921.075083
Emergent Insects	4305.9407	Small Mammals	2460.537542
		Solubility	

	BAF	Trophic Level 3	BAF
		Amphibians	11910.97028
		Reptiles	23821.94057
		Small Birds	7940.646857

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LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EE01	105	25600	0.32579869	1603.279816	1402.869839
EE02	110	29600	0.295189547	1452.649923	1271.068683
EE03	10	22150	0.03586132	176.4762476	154.4167166
EE04	5.5	10780	0.040526951	199.4361675	174.5066466
EE05	1100	5675	15.39667063	75768.1722	66297.15067
EE06	47	31450	0.11870724	584.1672418	511.1463366
EE07	13	5280	0.19557324	962.4305964	842.1267718
EE08	34	5715	0.472566229	2325.533894	2034.842157
EE09	9.9	29115	0.027009615	132.9163454	116.3018022
EE10	2.2	3050	0.057295807	281.9569687	246.7123476
EW01	205	50450	0.322769649	1588.373679	1389.826969
EW02	11.5	5315	0.171867821	845.7744528	740.0526462
EW03	5	2000	0.198582059	977.237221	855.0825683

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EE01	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE02	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE03	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE04	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE05	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE06	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE07	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE08	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE09	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EE10	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EW01	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EW02	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714
EW03	0.025	123.026877	61.51343854	297.7742571	595.5485142	198.5161714

Aldrin

Krw 197.890335
TSCF 0.00879518
KStXy 66.5101116
Klw 66.5401116
Kcw 329.200558

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	105	25600	0.32579869	64.4724119	0.002865459	0.19058199	0.19066795	0.94331066
EE02	110	29600	0.295189547	58.4151583	0.002596246	0.1726766	0.17275449	0.85468559
EE03	10	22150	0.03586132	7.0966086	0.000315407	0.02097774	0.02098721	0.10383211
EE04	5.5	10780	0.040526951	8.01989186	0.000356442	0.02370699	0.02371769	0.11734088
EE05	1100	5675	15.39667063	3046.85231	0.135416525	9.00656817	9.01063066	44.5791955
EE06	47	31450	0.11870724	23.4910155	0.001044052	0.06944	0.06947132	0.34370244
EE07	13	5280	0.19557324	38.7020539	0.001720102	0.1144042	0.1144558	0.56625863
EE08	34	5715	0.472566229	93.5162893	0.004156306	0.27643638	0.27656107	1.36825829
EE09	9.9	29115	0.027009615	5.34494184	0.000237554	0.01579978	0.0158069	0.07820307
EE10	2.2	3050	0.057295807	11.3382865	0.000503927	0.03351625	0.03353136	0.16589307
EW01	205	50450	0.322769649	63.872994	0.002838818	0.1888101	0.18889526	0.93454044
EW02	11.5	5315	0.171867821	34.0109807	0.001511609	0.10053727	0.10058262	0.49762247
EW03	5	2000	0.198582059	39.2974701	0.001746565	0.11616426	0.11621666	0.57497031

Chemical Name	alpha-Chlordane
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	5.54
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	4.35
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	6.76
Food Chain Multiplier - Trophic Level 4	7.96

Mean	Sediment Concentration (ug/kg)			Total Organic Carbon (mg/Kg)			Surface Water Concentration (ug/L)		
	EE01	EE02	EE03	EE01	EE02	EE03	EE01	EE02	EE03
EW01	55	105	6	25680	50450	2000	0.025	0.025	0.025
EW02	1125	825	4925	29660	5315		0.025	0.025	0.025
EW03				22150			0.025	0.025	0.025
EW04	525			10780			0.025	0.025	0.025
EW05	5200			5675			0.025	0.025	0.025
EW06	925			31450			0.025	0.025	0.025
EW07	1725			5280			0.025	0.025	0.025
EW08	115			5715			0.025	0.025	0.025
EW09	1575			29115			0.025	0.025	0.025
EW10	2125			3050			0.025	0.025	0.025

Invertebrates	BCF _{lipid}			346736.8505
	BCF	BAF _{lipid}	BAF	
Aquatic Invertebrates	4	13869.5	346736.9	13869.5
Emergent Insects	3.5	12135.8	346736.9	12135.8
Trophic Level 2	%Lipid			
Forage Fish	4	13869.47	346736.9	13869.47
Small Mammals	2	6934.737	346736.9	6934.737
Trophic Level 3	%Lipid			
Amphibians	3	10402.11	2345328	70359.84
Reptiles	6	20804.21	2345328	140719.7
Small Birds	2	6934.737	2345328	46906.56

Plants	%Lipids		%Moisture
	%Lipids	%Moisture	
Root	1	82	82
Stem	1	82	82
Foliage	1	85	85
Fruit	5	75	75
K _{ow}	429.4882		
TSCF	0.002388		
K _{oxy}	143.7094		
K _{lw}	143.7394		
K _{ow}	715.197		

alpha Chlordane

	Sediment ug/Kg	Water ug/L	Plants				Invertebrates			Trophic Level 2			Trophic Level 3		
			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg			
EE01	55	0.025	41.2167693	0.03293591	0.16387757	1331.01428	1164.6375	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			
EE02	105	0.025	68.0532408	0.05438067	0.27057918	2197.6452	1922.93955	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			
EE03	6	0.025	5.19671313	0.00415264	0.02066209	167.817602	146.840402	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			
EE04	5.25	0.025	9.34311655	0.00746599	0.03714816	301.717523	264.002833	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			
EE05	5200	0.025	17578.7788	14.0470268	69.893094	567671.994	496712.995	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			
EE06	9.25	0.025	5.6425096	0.00450887	0.02243458	182.21372	159.437005	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			
EE07	1.725	0.025	6.26767402	0.00500844	0.02492023	202.402172	177.1019	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			
EE08	1.15	0.025	3.86040464	0.00308481	0.01534894	124.664155	109.081135	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			
EE09	1.575	0.025	1.03780316	0.0008293	0.0041263	33.5138063	29.3245805	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			
EE10	2.125	0.025	13.3662727	0.01068086	0.0531442	431.637418	377.682741	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			
EW01	113.25	0.025	43.065378	0.03441311	0.17122762	1390.71145	1216.87252	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			
EW02	8.25	0.025	29.7784373	0.02379565	0.11839885	961.635906	841.431418	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			
EW03	4.925	0.025	47.2419116	0.03775054	0.18783349	1525.58437	1334.88632	346.73685	173.3684252	1758.996051	3517.9921	1172.66403			

Invertebrates	Trohic Level 2	Trohic Level 3
Aquatic Invertebrates	Forage Fish	Amphibians
Emergent Insects	Small Mammals	Reptiles
	Solubility	Small Birds

BAF
70359.84204
140719.6841
46906.56136

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LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EE01	55	25600	0.095967178	1331.014282	1164.637497
EE02	105	29600	0.15845195	2197.645203	1922.939552
EE03	6	22150	0.012099781	167.817602	146.8404018
EE04	5.25	10780	0.021754071	301.7175232	264.0028328
EE05	5200	5675	40.92959787	567671.9942	496712.995
EE06	9.25	31450	0.013137753	182.2137199	159.4370049
EE07	1.725	5280	0.014593356	202.4021718	177.1019003
EE08	1.15	5715	0.008988384	124.6641548	109.0811355
EE09	1.575	29115	0.002416372	33.51380628	29.3245805
EE10	2.125	3050	0.031121398	431.6374184	377.6827411
EW01	113.25	50450	0.100271391	1390.711454	1216.872522
EW02	8.25	5315	0.069334706	961.6359064	841.4314181
EW03	4.925	2000	0.109995835	1525.58437	1334.886323

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EE01	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE02	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE03	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE04	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE05	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE06	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE07	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE08	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE09	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE10	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EW01	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EW02	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EW03	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034

alpha Chlordane

Krw 429.488188
TSCF 0.00238765
KSLXy 143.709396
Klw 143.739396
Kcw 715.196979

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	55	25600	0.095967178	41.2167693	0.000229136	0.03292904	0.03293591	0.16387757
EE02	105	29600	0.15845195	68.0532408	0.000378328	0.05436932	0.05438067	0.27057918
EE03	6	22150	0.012099781	5.19671313	2.88901E-05	0.00415177	0.00415264	0.02066209
EE04	5.25	10780	0.021754071	9.34311655	5.19412E-05	0.00746443	0.00746599	0.03714816
EE05	5200	5675	40.92959787	17578.7788	0.097725656	14.044095	14.0470268	69.893094
EE06	9.25	31450	0.013137753	5.6425096	3.13684E-05	0.00450793	0.00450887	0.02243458
EE07	1.725	5280	0.014593356	6.26767402	3.48439E-05	0.00500739	0.00500844	0.02492023
EE08	1.15	5715	0.008988384	3.86040464	2.14611E-05	0.00308417	0.00308481	0.01534894
EE09	1.575	29115	0.002416372	1.03780316	5.76946E-06	0.00082913	0.0008293	0.0041263
EE10	2.125	3050	0.031121398	13.3662727	7.43071E-05	0.01067863	0.01068086	0.0531442
EW01	113.25	50450	0.100271391	43.065378	0.000239413	0.03440593	0.03441311	0.17122762
EW02	8.25	5315	0.069334706	29.7784373	0.000165547	0.02379069	0.02379565	0.11839885
EW03	4.925	2000	0.109995835	47.2419116	0.000262632	0.03774266	0.03775054	0.18783349

Chemical Name	alpha Chlordane
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	5.34
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	4.35
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	6.76
Food Chain Multiplier - Trophic Level 4	7.96

	Maximum			Mean			Maximum		
	Sediment Concentration (ug/kg)	Total Organic Carbon (mg/Kg)	Surface Water Concentration (ug/L)	Sediment Concentration (ug/kg)	Total Organic Carbon (mg/Kg)	Surface Water Concentration (ug/L)	Sediment Concentration (ug/kg)	Total Organic Carbon (mg/Kg)	Surface Water Concentration (ug/L)
EE01	105	25600	0.025	25600	50450	0.025	105	25600	0.025
EE02	110	29600	0.025	29600	3315	0.025	110	29600	0.025
EE03	10	22150	0.025	22150	2000	0.025	10	22150	0.025
EE04	3.5	10780	0.025	10780		0.025	3.5	10780	0.025
EE05	9400	5675	0.025	5675		0.025	9400	5675	0.025
EE06	9.5	31450	0.025	31450		0.025	9.5	31450	0.025
EE07	2.4	5280	0.025	5280		0.025	2.4	5280	0.025
EE08	1.25	5715	0.025	5715		0.025	1.25	5715	0.025
EE09	2.1	29115	0.025	29115		0.025	2.1	29115	0.025
EE10	2.2	3050	0.025	3050		0.025	2.2	3050	0.025

	BCF _{lipid}		BAF _{lipid}	BAF
	%Lipid	BCF		
Invertebrates			346736.8505	
Aquatic Invertebrates	4	13869.5	346736.9	13869.5
Emergent Insects	3.5	12135.8	346736.9	12135.8
Trophic Level 2				
Forage Fish	4	13869.47	346736.9	13869.47
Small Mammals	2	6934.737	346736.9	6934.737
Trophic Level 3				
Amphibians	3	10402.11	2345328	70359.84
Reptiles	6	20804.21	2345328	140719.7
Small Birds	2	6934.737	2345328	46906.56

	Plants	
	%Lipids	%Moisture
Root	1	82
Stem	1	82
Foliage	1	85
Fruit	5	75

K _{ow}	429.4882
TSCF	0.002388
K _{oxy}	143.7094
K _{ow}	143.7394
K _{ow}	715.197

alpha Chlordane

	Water		Plants						Invertebrates				Trophic Level 2			Trophic Level 3		
	Sediment ug/Kg	Water ug/L	Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg						
EE01	105	0.025	78.6865597	0.06287764	0.31285718	2541.02727	2223.39886	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						
EE02	110	0.025	71.2938713	0.05697022	0.2834639	2302.29497	2014.5081	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						
EE03	10	0.025	8.66118855	0.00692107	0.03443682	279.696003	244.734003	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						
EE04	5.5	0.025	9.78802686	0.00782151	0.03891712	316.085024	276.574396	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						
EE05	9400	0.025	24051.3385	19.2191846	95.6279433	776690.545	679604.227	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						
EE06	9.5	0.025	5.79500986	0.00463073	0.02304092	187.138415	163.746113	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						
EE07	2.4	0.025	8.72024211	0.00696826	0.03467162	281.603022	246.402644	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						
EE08	1.25	0.025	4.196092	0.003335306	0.01668363	135.504516	118.566452	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						
EE09	2.1	0.025	1.38373754	0.00110573	0.00550173	44.685075	39.0994407	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						
EE10	2.2	0.025	13.8380235	0.01105783	0.05501988	446.87168	391.01272	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						
EW01	205	0.025	77.9549889	0.06229305	0.30994846	2517.40263	2202.7273	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						
EW02	11.5	0.025	41.5093369	0.0331697	0.16504082	1340.46217	1172.9044	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						
EW03	5	0.025	47.9613316	0.03832542	0.1906939	1548.81662	1355.21454	346.73685	173.3684252	1758.996051	3517.9921	1172.66403						

alpha Chloride

8.35

Invertebrates
 Aquatic Invertebrates
 Emergent Insects

BAF
 13869.474
 12135.7898

Trophic Level 2
 Forage Fish
 Small Mammals
 Solubility

BAF
 13869.47402
 6934.737009

Trophic Level 3
 Amphibians
 Reptiles
 Small Birds

BAF
 70359.84204
 140719.6841
 46906.56136

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LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EE01	105	25600	0.183210067	2541.027265	2223.398857
EE02	110	29600	0.165997281	2302.294974	2014.508102
EE03	10	22150	0.020166302	279.6960034	244.734003
EE04	5.5	10780	0.022789979	316.0850243	276.5743962
EE05	9400	5675	56	776690.545	679604.2269
EE06	9.5	31450	0.013492827	187.138415	163.7461131
EE07	2.4	5280	0.0203038	281.6030216	246.4026439
EE08	1.25	5715	0.009769982	135.5045161	118.5664516
EE09	2.1	29115	0.003221829	44.68507504	39.09944066
EE10	2.2	3050	0.0322198	446.8716802	391.0127202
EW01	205	50450	0.181506712	2517.402631	2202.727302
EW02	11.5	5315	0.096648378	1340.462173	1172.904401
EW03	5	2000	0.111670898	1548.816619	1355.214542

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EE01	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE02	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE03	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE04	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE05	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE06	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE07	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE08	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE09	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EE10	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EW01	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EW02	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034
EW03	0.025	346.73685	173.3684252	1758.996051	3517.992102	1172.664034

alpha Chlordane

Krw 429.488188
TSCF 0.00238765
KStXy 143.709396
Klw 143.739396
Kcw 715.196979

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	105	25600	0.183210067	78.6865597	0.000437442	0.06286452	0.06287764	0.31285718
EE02	110	29600	0.165997281	71.2938713	0.000396344	0.05695833	0.05697022	0.2834639
EE03	10	22150	0.020166302	8.66118855	4.81501E-05	0.00691962	0.00692107	0.03443682
EE04	5.5	10780	0.022789979	9.78802686	5.44146E-05	0.00781988	0.00782151	0.03891712
EE05	9400	5675	56	24051.3385	0.133708539	19.2151734	19.2191846	95.6279433
EE06	9.5	31450	0.013492827	5.79500986	3.22162E-05	0.00462977	0.00463073	0.02304092
EE07	2.4	5280	0.0203038	8.72024211	4.84784E-05	0.0069668	0.00696826	0.03467162
EE08	1.25	5715	0.009769982	4.196092	2.33273E-05	0.00335236	0.00335306	0.01668363
EE09	2.1	29115	0.003221829	1.38373754	7.69261E-06	0.0011055	0.00110573	0.00550173
EE10	2.2	3050	0.0322198	13.8380235	7.69297E-05	0.01105552	0.01105783	0.05501988
EW01	205	50450	0.181506712	77.9549889	0.000433375	0.06228005	0.06229305	0.30994846
EW02	11.5	5315	0.096648378	41.5093369	0.000230763	0.03316277	0.0331697	0.16504082
EW03	5	2000	0.111670898	47.9613316	0.000266631	0.03831742	0.03832542	0.1906939

Chemical Name	Benzidine
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	1.480
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	2.140
BCF	7.000
Food Chain Multiplier - Trophic Level 2	#N/A
Food Chain Multiplier - Trophic Level 3	#N/A
Food Chain Multiplier - Trophic Level 4	#N/A

	Mean		
	Sediment Concentration (ug/kg)	Total Organic Carbon (mg/Kg)	Surface Water Concentration (ug/L)
EE01	4375	25000	25
EE02	8410	29600	25
EE03	4450	22150	25
EE04	1525	10780	25
EE05	11250	3675	25
EE06	8325	31450	25
EE07	1625	5280	25
EE08	3350	5715	25
EE09	1550	29115	25
EE10	1550	3050	25

	Mean		
	Sediment Concentration (ug/kg)	Total Organic Carbon (mg/Kg)	Surface Water Concentration (ug/L)
EE01	4375	25000	25
EE02	8410	29600	25
EE03	4450	22150	25
EE04	1525	10780	25
EE05	11250	3675	25
EE06	8325	31450	25
EE07	1625	5280	25
EE08	3350	5715	25
EE09	1550	29115	25
EE10	1550	3050	25

	Mean		
	Sediment Concentration (ug/kg)	Total Organic Carbon (mg/Kg)	Surface Water Concentration (ug/L)
EE01	4375	25000	25
EE02	8410	29600	25
EE03	4450	22150	25
EE04	1525	10780	25
EE05	11250	3675	25
EE06	8325	31450	25
EE07	1625	5280	25
EE08	3350	5715	25
EE09	1550	29115	25
EE10	1550	3050	25

	Invertebrates	
	%Lipid	BCF
Aquatic Invertebrates	4	7.0
Emergent Insects	3.5	7.0
Trophic Level 2		
	%Lipid	
Forage Fish	4	7.0
Small Mammals	2	7.0
Trophic Level 3		
	%Lipid	
Amphibians	3	7.0
Reptiles	6	7.0
Small Birds	2	7.0

	Plants	
	%Lipids	%Moisture
Root	3	82
Stem	1	82
Foliage	1	85
Fruit	5	75

K_{ow}	1.206475
TSCF	0.755609
K_{oc}	0.948825
K_{fw}	0.978825
K_{cw}	1.394125

Benzidine

	Sediment		Water ug/L	Plants				Invertebrates		Trophic Level 2			Trophic Level 3		
	ug/Kg			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg		
EE01	4525		25	1544.88763	947.066894	1348.89228	8963.48009	8963.48009	175	175	175	175	175		
EE02	8410		25	2483.26212	1522.32129	2168.21794	14407.9544	14407.9544	175	175	175	175	175		
EE03	4450		25	1755.91933	1076.43626	1533.151	10187.8917	10187.8917	175	175	175	175	175		
EE04	1525		25	1236.42951	757.971925	1079.56733	7173.79766	7173.79766	175	175	175	175	175		
EE05	11250		25	17326.2643	10621.5695	15128.132	100527.457	100527.457	175	175	175	175	175		
EE06	8325		25	2313.56588	1418.29192	2020.05057	13423.3722	13423.3722	175	175	175	175	175		
EE07	1625		25	2689.90983	1649.00313	2348.64886	15606.93	15606.93	175	175	175	175	175		
EE08	3350		25	5123.26536	3140.73005	4473.29173	29725.325	29725.325	175	175	175	175	175		
EE09	1550		25	465.300139	285.244278	406.268876	2699.68407	2699.68407	175	175	175	175	175		
EE10	1550		25	4441.70936	2722.91382	3878.20273	25770.9186	25770.9186	175	175	175	175	175		
EW01	4575		25	792.589303	485.883292	692.035825	4598.6247	4598.6247	175	175	175	175	175		
EW02	1575		25	2589.97498	1587.73978	2261.39245	15027.1053	15027.1053	175	175	175	175	175		
EW03	1500		25	6555.10333	4018.49378	5723.47661	38032.8879	38032.8879	175	175	175	175	175		

	Trophic Level 2	Trophic Level 3	BAF
Invertebrates	7	7	7
Aquatic Invertebrates	7	7	7
Emergent Insects	7	7	7
	Forage Fish	Amphibians	BAF
	Small Mammals	Reptiles	7
	Solubility	Small Birds	7
	400000		

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EB01	4525	25600	1280.497156	8963.480092	8963.480092
EB02	8410	29600	2058.279197	14407.95438	14407.95438
EB03	4450	22150	1455.413103	10187.89172	10187.89172
EB04	1525	10780	1024.828237	7173.797657	7173.797657
EB05	11250	5675	14361.06529	100527.457	100527.457
EB06	8325	31450	1917.6246	13423.3722	13423.3722
EB07	1625	5280	2229.56143	15606.93001	15606.93001
EB08	3350	5715	4246.475007	29725.32505	29725.32505
EB09	1550	29115	385.6691527	2699.684069	2699.684069
EB10	1550	3050	3681.559797	25770.91858	25770.91858
EW01	4575	50450	656.946386	4598.624702	4598.624702
EW02	1575	5315	2146.729327	15027.10529	15027.10529
EW03	1500	2000	5433.269701	38032.8879	38032.8879

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EB01	25	175	175	175	175	175
EB02	25	175	175	175	175	175
EB03	25	175	175	175	175	175
EB04	25	175	175	175	175	175
EB05	25	175	175	175	175	175
EB06	25	175	175	175	175	175
EB07	25	175	175	175	175	175
EB08	25	175	175	175	175	175
EB09	25	175	175	175	175	175
EB10	25	175	175	175	175	175
EW01	25	175	175	175	175	175
EW02	25	175	175	175	175	175
EW03	25	175	175	175	175	175

Benzidine

Krw 1.20647487
 TSCF 0.75560879
 KStXy 0.94882496
 Klw 0.97882496
 Kcw 1.39412478

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	4525	25600	1280.497156	1544.88763	967.5549122	918.040246	947.066894	1348.89228
EE02	8410	29600	2058.279197	2483.26212	1555.253863	1475.66368	1522.32129	2168.21794
EE03	4450	22150	1455.413103	1755.91933	1099.72294	1043.44457	1076.43626	1533.151
EE04	1525	10780	1024.828237	1236.42951	774.3692283	734.740848	757.971925	1079.56733
EE05	11250	5675	14361.06529	17326.2643	10851.34723	10296.029	10621.5695	15128.132
EE06	8325	31450	1917.6246	2313.56588	1448.974012	1374.8227	1418.29192	2020.05057
EE07	1625	5280	2229.56143	2689.90983	1684.676224	1598.46284	1649.00313	2348.64886
EE08	3350	5715	4246.475007	5123.26536	3208.67386	3044.46983	3140.73005	4473.29173
EE09	1550	29115	385.6691527	465.300139	291.4150035	276.501828	285.244278	406.268876
EE10	1550	3050	3681.559797	4441.70936	2781.81896	2639.45925	2722.91382	3878.20273
EW01	4575	50450	656.946386	792.589303	496.3944667	470.991458	485.883292	692.035825
EW02	1575	5315	2146.729327	2589.97498	1622.087558	1539.07715	1587.73978	2261.39245
EW03	1500	2000	5433.269701	6555.10333	4105.426368	3895.33099	4018.49378	5723.47661

Chemical Name	Benzidine
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	1.480
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	2.140
BCF	7.000
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	1.00
Food Chain Multiplier - Trophic Level 4	1.00

	Maximum			Mean			Maximum		
	Sediment Concentration (ug/kg)	Total Organic Carbon (mg/Kg)	Surface Water Concentration (ug/L)	Total Organic Carbon (mg/Kg)	Surface Water Concentration (ug/L)	Surface Water Concentration (ug/L)			
EE01	7300	25600	25	50450	25	25			
EE02	16300	29600	25	5315	25	25			
EE03	6000	22130	25	2000	25	25			
EE04	1550	10780	25		25	25			
EE05	14300	3675	25		25	25			
EE06	14000	31450	25		25	25			
EE07	1750	5280	25		25	25			
EE08	3650	5715	25		25	25			
EE09	1350	29115	25		25	25			
EE10	1600	3050	25		25	25			

	BCF _{lipid}	
	BCF _{lipid}	30.1995172
Invertebrates		
Aquatic Invertebrates	BCF	BAF
Emergent Insects	7.0	7.0
Trophic Level 2	7.0	7.0
Forage Fish	7.0	7.0
Small Mammals	7.0	7.0
Trophic Level 3		
Amphibians	7.0	7.0
Reptiles	7.0	7.0
Small Birds	7.0	7.0

	Plants	
	%Lipids	%Moisture
Root	3	82
Stem	1	82
Foliage	1	85
Fruit	3	75

K _{ow}	1.206475
TSCF	0.755609
K _{owx}	0.948825
K _{ow}	0.978825
K _{ow}	1.394125

Benzidine

	Sediment ug/Kg	Water ug/L	Plants				Invertebrates		Trophic Level 2			Trophic Level 3		
			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg		
EE01	7500	25	2560.58724	1569.72413	2235.73305	14856.5968	14856.5968	175	175	175	175	175	175	175
EE02	16500	25	4872.03626	2986.71835	4253.93532	28267.687	28267.687	175	175	175	175	175	175	175
EE03	6000	25	2367.53168	1451.37473	2067.16988	13736.4832	13736.4832	175	175	175	175	175	175	175
EE04	1550	25	1256.69885	770.397694	1097.26515	7291.4009	7291.4009	175	175	175	175	175	175	175
EE05	14500	25	22331.6296	13690.0229	19498.4813	129568.722	129568.722	175	175	175	175	175	175	175
EE06	14000	25	3890.68136	2385.11555	3397.08204	22573.8391	22573.8391	175	175	175	175	175	175	175
EE07	1750	25	2896.82597	1775.84952	2529.31416	16807.4631	16807.4631	175	175	175	175	175	175	175
EE08	3650	25	5582.06525	3421.98945	4873.88501	32387.2945	32387.2945	175	175	175	175	175	175	175
EE09	1550	25	465.300139	285.244278	406.268876	2699.68407	2699.68407	175	175	175	175	175	175	175
EE10	1600	25	4584.99031	2810.74975	4003.30605	26602.2385	26602.2385	175	175	175	175	175	175	175
EW01	6000	25	1039.46138	637.223989	907.587967	6030.98322	6030.98322	175	175	175	175	175	175	175
EW02	1650	25	2713.30712	1663.34644	2369.07781	15742.6817	15742.6817	175	175	175	175	175	175	175
EW03	1550	25	6773.60678	4152.44357	5914.25917	39300.6508	39300.6508	175	175	175	175	175	175	175

Invertebrates	BAF		Trophic Level 2		Benzidine		Trophic Level 3		BAF			
	Aquatic Invertebrates	Emergent Insects	Forage Fish	Small Mammals	Pore Water (ug/L)	TOC mg/Kg	Sediment ug/Kg	Aquatic Invertebrates	Emergent Insects	Amphibians	Reptiles	Small Birds
	7	7										
					400000							
LOCATION												
EE01	7500	16500	2122.370977	4038.240994	14856.59684	25600	7500	14856.59684	14856.59684	7	7	7
EE02	6000	1550	29600	1962.354745	28267.68696	22150	6000	28267.68696	28267.68696	7	7	7
EE03	14500	14000	10780	18509.81748	13736.48322	1041.6287	14500	13736.48322	13736.48322			
EE04	14000	1750	5675	3224.834162	7291.400897	3650	14000	7291.400897	7291.400897			
EE05	1750	3650	5280	2401.066156	129568.7224	1550	1750	129568.7224	129568.7224			
EE06	1550	1600	5715	4626.75635	22573.83914	1600	1550	22573.83914	22573.83914			
EE07	1600	6000	29115	385.6691527	16807.46309	3050	6000	16807.46309	16807.46309			
EE08	3050	6000	26602.23853	2699.684069	32387.29445	3050	3050	32387.29445	32387.29445			
EE09	6030.983216	15742.68173	861.5690308	26602.23853	2699.684069	6000	6000	26602.23853	26602.23853			
EE10	15742.68173	39300.65083	2248.954533	15742.68173	6030.983216	1650	1650	15742.68173	15742.68173			
EW01	39300.65083		5614.378691	39300.65083	39300.65083	1550	1550	39300.65083	39300.65083			
EW02												
EW03												

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EE01	25	175	175	175	175	175
EE02	25	175	175	175	175	175
EE03	25	175	175	175	175	175
EE04	25	175	175	175	175	175
EE05	25	175	175	175	175	175
EE06	25	175	175	175	175	175
EE07	25	175	175	175	175	175
EE08	25	175	175	175	175	175
EE09	25	175	175	175	175	175
EE10	25	175	175	175	175	175
EW01	25	175	175	175	175	175
EW02	25	175	175	175	175	175
EW03	25	175	175	175	175	175

Benzidine

Krw 1.20647487
 TSCF 0.75560879
 KStXy 0.94882496
 Klw 0.97882496
 Kcw 1.39412478

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	7500	25600	2122.370977	2560.58724	1603.682175	1521.61367	1569.72413	2235.73305
EE02	16500	29600	4038.240994	4872.03626	3051.330408	2895.17844	2986.71835	4253.93532
EE03	6000	22150	1962.354745	2367.53168	1482.772503	1406.89155	1451.37473	2067.16988
EE04	1550	10780	1041.6287	1256.69885	787.0638058	746.78578	770.397694	1097.26515
EE05	14500	5675	18509.81748	22331.6296	13986.18087	13270.4374	13690.0229	19498.4813
EE06	14000	31450	3224.834162	3890.68136	2436.713053	2312.01415	2385.11555	3397.08204
EE07	1750	5280	2401.066156	2896.82597	1814.266703	1721.42152	1775.84952	2529.31416
EE08	3650	5715	4626.75635	5582.06525	3496.017788	3317.10892	3421.98945	4873.88501
EE09	1550	29115	385.6691527	465.300139	291.4150035	276.501828	285.244278	406.268876
EE10	1600	3050	3800.319791	4584.99031	2871.555055	2724.6031	2810.74975	4003.30605
EW01	6000	50450	861.5690308	1039.46138	651.0091366	617.693715	637.223989	907.587967
EW02	1650	5315	2248.954533	2713.30712	1699.329823	1612.36654	1663.34644	2369.07781
EW03	1550	2000	5614.378691	6773.60678	4242.273913	4025.17536	4152.44357	5914.25917

Chemical Name	Dieldrin
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	2.920
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	2.920
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	1.02
Food Chain Multiplier - Trophic Level 4	1.01

Mean

Sediment Concentration (ug/kg)	EW01	EW02	EW03
EE01	105	207.5	11.7
EE02	207.5	16	9.75
EE03	11.7	16	9.75
EE04	10.25		
EE05	20000		
EE06	18.25		
EE07	3.35		
EE08	25.025		
EE09	3.05		
EE10	4.1		

Mean

Total Organic Carbon (mg/Kg)	EW01	EW02	EW03
EE01	25600	50450	2000
EE02	29600	5315	
EE03	22150		
EE04	10780		
EE05	5675		
EE06	31450		
EE07	5280		
EE08	5715		
EE09	29115		
EE10	3080		

Mean

Surface Water Concentration (ug/L)	EW01	EW02	EW03
EE01	0.05	0.05	0.05
EE02	0.05	0.05	0.05
EE03	0.05	0.05	0.05
EE04	0.05		
EE05	0.061		
EE06	0.05		
EE07	0.05		
EE08	0.05		
EE09	0.05		
EE10	0.05		

Invertebrates	BCF _{lipid}	831.7637711
Aquatic Invertebrates	%Lipid	BAF _{lipid}
Emergent Insects	4	33.3
Trophic Level 2	3.5	29.1
Forage Fish	%Lipid	BAF
Small Mammals	4	33.27055
Trophic Level 3	2	16.63528
Amphibians	%Lipid	BAF
Reptiles	3	24.95291
Small Birds	6	49.90583
	2	16.63528

Plants	%Lipids	%Moisture
Root	3	82
Stem	1	82
Foliage	1	83
Fruit	5	75

K _{ow}	5.46645
TSCF	0.460257
K _{oxy}	2.368817
K _{lw}	2.398817
K _{ew}	8.494083

Dieldrin

	Sediment ug/Kg	Water ug/L	Plants					Invertebrates			Trophic Level 2			Trophic Level 3		
			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg				
EE01	105	0.05	26.9559337	5.44436504	19.2782094	164.0625	143.554688	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881				
EE02	207.5	0.05	46.071437	9.3051696	32.9491146	280.405405	245.35473	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881				
EE03	11.7	0.05	3.47150264	0.70114854	2.48272999	21.1286682	18.4875847	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881				
EE04	10.25	0.05	6.24899926	1.26212686	4.46912461	38.0333952	33.2792208	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881				
EE05	20000	0.061	1016.75967	205.357632	727.16054	6188.32246	5414.78215	2.0295036	1.014751801	1.559267618	3.11853524	1.03951175				
EE06	18.25	0.05	3.81370932	0.77026493	2.72746746	23.2114467	20.3100159	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881				
EE07	3.35	0.05	4.16980987	0.84218749	2.98214148	25.3787879	22.2064394	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881				
EE08	25.025	0.05	28.7781731	5.81240349	20.5814141	175.153106	153.258968	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881				
EE09	3.05	0.05	0.68847538	0.13905319	0.49238	4.19027992	3.66649493	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881				
EE10	4.1	0.05	8.83465076	1.78435771	6.3183165	53.7704918	47.0491803	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881				
EW01	218.25	0.05	28.4314134	5.74236753	20.3334205	173.042616	151.412289	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881				
EW02	16	0.05	19.7843635	3.99590005	14.1492713	120.413923	105.362183	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881				
EW03	9.75	0.05	32.0390765	6.47101674	22.9135289	195	170.625	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881				

Invertebrates	BAF	Trophic Level 2	BAF	Trophic Level 3	BAF
Aquatic Invertebrates	33.2705508	Forage Fish	33.27055084	Amphibians	25.56176422
Emergent Insects	29.111732	Small Mammals	16.63527542	Reptiles	51.12352845
		Solubility		Small Birds	17.04117615

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LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EE01	105	25600	4.93116272	164.0625	143.5546875
EE02	207.5	29600	8.428036155	280.4054054	245.3547297
EE03	11.7	22150	0.635056157	21.12866817	18.48758465
EE04	10.25	10780	1.143154959	38.03399518	33.27922078
EE05	20000	5675	186	6188.322457	5414.78215
EE06	18.25	31450	0.697657422	23.21144674	20.3100159
EE07	3.35	5280	0.762800352	25.37878788	22.20643939
EE08	25.025	5715	5.264508745	175.1531059	153.2589676
EE09	3.05	29115	0.125945613	4.190279924	3.666494934
EE10	4.1	3050	1.616158748	53.7704918	47.04918033
EW01	218.25	50450	5.201074586	173.0426165	151.4122894
EW02	16	5315	3.619234422	120.4139229	105.3621825
EW03	9.75	2000	5.861039119	195	170.625

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EE01	0.05	1.66352754	0.831763771	1.278088211	2.556176422	0.852058807
EE02	0.05	1.66352754	0.831763771	1.278088211	2.556176422	0.852058807
EE03	0.05	1.66352754	0.831763771	1.278088211	2.556175422	0.852058807
EE04	0.05	1.66352754	0.831763771	1.278088211	2.556176422	0.852058807
EE05	0.061	2.0295036	1.014751801	1.559267618	3.118535235	1.039511745
EE06	0.05	1.66352754	0.831763771	1.278088211	2.556176422	0.852058807
EE07	0.05	1.66352754	0.831763771	1.278088211	2.556176422	0.852058807
EE08	0.05	1.66352754	0.831763771	1.278088211	2.556176422	0.852058807
EE09	0.05	1.66352754	0.831763771	1.278088211	2.556176422	0.852058807
EE10	0.05	1.66352754	0.831763771	1.278088211	2.556176422	0.852058807
EW01	0.05	1.66352754	0.831763771	1.278088211	2.556176422	0.852058807
EW02	0.05	1.66352754	0.831763771	1.278088211	2.556176422	0.852058807
EW03	0.05	1.66352754	0.831763771	1.278088211	2.556176422	0.852058807

Dieldrin

Krw 5.46644986
 TSCF 0.46025748
 KStXy 2.36881662
 Klw 2.39881662
 Kcw 8.49408309

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	105	25600	4.93116272	26.9559537	2.269604521	5.37627691	5.44436504	19.2782094
EE02	207.5	29600	8.428036155	46.071437	3.879066672	9.1887976	9.3051696	32.9491146
EE03	11.7	22150	0.635056157	3.47150264	0.292289346	0.69237986	0.70114854	2.48272999
EE04	10.25	10780	1.143154959	6.24899926	0.526145619	1.24634249	1.26212686	4.46912461
EE05	20000	5675	186	1016.75967	85.60789107	202.789395	205.357632	727.16054
EE06	18.25	31450	0.697657422	3.81370932	0.321102046	0.76063186	0.77026493	2.72746746
EE07	3.35	5280	0.762800352	4.16980987	0.351084567	0.83165496	0.84218749	2.98214148
EE08	25.025	5715	5.264508745	28.7781731	2.423029522	5.7397126	5.81240349	20.5814141
EE09	3.05	29115	0.125945613	0.68847538	0.05796741	0.13731417	0.13905319	0.49238
EE10	4.1	3050	1.616158748	8.83465076	0.743849151	1.76204223	1.78435771	6.3183165
EW01	218.25	50450	5.201074586	28.4314134	2.393833476	5.67055252	5.74236753	20.3334205
EW02	16	5315	3.619234422	19.7843635	1.665779711	3.94592666	3.99590005	14.1492713
EW03	9.75	2000	5.861039119	32.0390765	2.697587088	6.39008913	6.47101674	22.9135289

Chemical Name	Dieldrin
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	2.920
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	2.920
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	1.02
Food Chain Multiplier - Trophic Level 4	1.01

	Maximum			Mean			Maximum					
	Sediment Concentration (ug/kg)	Total Organic Carbon (mg/kg)	Surface Water Concentration (ug/L)	EE01	EE02	EE03	EE01	EE02	EE03	EE01	EE02	EE03
EW01	200	395	0.05	25600	30430	0.05	25600	30430	0.05	EW01	0.05	0.05
EW02	230	22	0.05	29600	5315	0.05	29600	5315	0.05	EW02	0.05	0.05
EW03	19.5	10	0.05	22150	2000	0.05	22150	2000	0.05	EW03	0.05	0.05
EE04	10.5		0.05	10780		0.05	10780		0.05	EE04	0.05	0.05
EE05	23000		0.072	5675		0.05	5675		0.072	EE05	0.072	0.05
EE06	19		0.05	31450		0.05	31450		0.05	EE06	0.05	0.05
EE07	4.7		0.05	5280		0.05	5280		0.05	EE07	0.05	0.05
EE08	48		0.05	5715		0.05	5715		0.05	EE08	0.05	0.05
EE09	4.1		0.05	29115		0.05	29115		0.05	EE09	0.05	0.05
EE10	4.23		0.05	3050		0.05	3050		0.05	EE10	0.05	0.05

	BCF _{lipid}		BAF _{lipid}	BAF
	%Lipid	BCF		
Invertebrates			831.763711	
Aquatic Invertebrates	4	33.3	831.8	33.3
Emergent Insects	3.5	29.1	831.8	29.1
Trophic Level 2				
Forage Fish	4	33.27055	831.7638	33.27055
Small Mammals	2	16.63528	831.7638	16.63528
Trophic Level 3				
Amphibians	3	24.95291	852.0588	25.56176
Reptiles	6	49.90583	852.0588	51.12353
Small Birds	2	16.63528	852.0588	17.04118

	Plants	
	%Lipids	%Moisture
Root	1	82
Stem	1	82
Foliage	1	85
Fruit	5	75

K _{ow}	5.46645
TSCF	0.460257
K _{oxy}	2.368817
K _{iw}	2.398817
K _{ow}	8.494083

Dieldrin

	Sediment		Water ug/L	Plants					Invertebrates			Trophic Level 2			Trophic Level 3		
	ug/Kg			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg				
EE01	200	0.05	51.3446738	10.3702191	36.7203989	312.5	273.4375	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881					
EE02	220	0.05	48.8468248	9.86572198	34.9340011	297.297297	260.135135	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881					
EE03	19.5	0.05	5.78583773	1.1685809	4.13788332	35.214447	30.8126411	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881					
EE04	10.5	0.05	6.40141388	1.29291044	4.57812765	38.961039	34.0909091	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881					
EE05	23000	0.072	1016.75967	205.357632	727.16054	6188.32246	5414.78215	2.39547966	1.19773983	1.840447024	3.68089405	1.22696468					
EE06	19	0.05	3.9704371	0.80191965	2.83955517	24.1653418	21.1446741	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881					
EE07	4.7	0.05	5.85018101	1.18157648	4.18389999	35.6060606	31.155303	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881					
EE08	48	0.05	55.1988934	11.148666	39.4768382	335.958005	293.963255	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881					
EE09	4.1	0.05	0.92549149	0.18692396	0.66188787	5.63283531	4.92873089	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881					
EE10	4.25	0.05	9.15786969	1.84963908	6.54947442	55.7377049	48.7704918	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881					
EW01	395	0.05	51.4566245	10.3928301	36.8004631	313.181368	274.033697	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881					
EW02	22	0.05	27.2034998	5.49436257	19.455248	165.569144	144.873001	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881					
EW03	10	0.05	32.8605912	6.63694024	23.5010553	200	175	1.66352754	0.831763771	1.278088211	2.55617642	0.85205881					

Invertebrates	BAF	Trophic Level 2	BAF
Aquatic Invertebrates	33.2705508	Forage Fish	33.27055084
Emergent Insects	29.111732	Small Mammals	16.63527542
		Solubility	

		Trophic Level 3	BAF
		Amphibians	25.56176422
		Reptiles	51.12352845
		Small Birds	17.04117615

LOCATION	Sediment ug/L	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EE01	200	25600	9.392690895	312.5	273.4375
EE02	220	29600	8.935749176	297.2972973	260.1351351
EE03	19.5	22150	1.058426929	35.21444695	30.81264108
EE04	10.5	10780	1.171036787	38.96103896	34.09090909
EE05	23000	5675	186	6188.322457	5414.78215
EE06	19	31450	0.726328275	24.16534181	21.14467409
EE07	4.7	5280	1.070197508	35.60606061	31.15530303
EE08	48	5715	10.09775903	335.9580052	293.9632546
EE09	4.1	29115	0.169303939	5.632835308	4.928730895
EE10	4.25	3050	1.675286507	55.73770492	48.7704918
EW01	395	50450	9.413170499	313.1813677	274.036967
EW02	22	5315	4.97644733	165.5691439	144.8730009
EW03	10	2000	6.011322173	200	175

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Small Birds
EE01	0.05	1.66352754	0.831763771	1.278088211	0.852058807
EE02	0.05	1.66352754	0.831763771	1.278088211	0.852058807
EE03	0.05	1.66352754	0.831763771	1.278088211	0.852058807
EE04	0.05	1.66352754	0.831763771	1.278088211	0.852058807
EE05	0.072	2.39547966	1.19773983	1.840447024	1.226964683
EE06	0.05	1.66352754	0.831763771	1.278088211	0.852058807
EE07	0.05	1.66352754	0.831763771	1.278088211	0.852058807
EE08	0.05	1.66352754	0.831763771	1.278088211	0.852058807
EE09	0.05	1.66352754	0.831763771	1.278088211	0.852058807
EE10	0.05	1.66352754	0.831763771	1.278088211	0.852058807
EW01	0.05	1.66352754	0.831763771	1.278088211	0.852058807
EW02	0.05	1.66352754	0.831763771	1.278088211	0.852058807
EW03	0.05	1.66352754	0.831763771	1.278088211	0.852058807

Dieldrin

Krw 5.46644986
TSCF 0.46025748
KStXy 2.36881662
Klw 2.39881662
Kcw 8.49408309

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	200	25600	9.392690895	51.3446738	4.323056231	10.2405274	10.3702191	36.7203989
EE02	220	29600	8.935749176	48.8468248	4.112745388	9.74233962	9.86572198	34.9340011
EE03	19.5	22150	1.058426929	5.78583773	0.48714891	1.15396643	1.1685809	4.13788332
EE04	10.5	10780	1.171036787	6.40141388	0.538978439	1.27674108	1.29291044	4.57812765
EE05	23000	5675	186	1016.75967	85.60789107	202.789395	205.357632	727.16054
EE06	19	31450	0.726328275	3.9704371	0.334298021	0.79189071	0.80191965	2.83955517
EE07	4.7	5280	1.070197508	5.85018101	0.492566407	1.16679949	1.18157648	4.18389999
EE08	48	5715	10.09775903	55.1988934	4.647569114	11.009239	11.148666	39.4768382
EE09	4.1	29115	0.169303939	0.92549149	0.077923404	0.18458625	0.18692396	0.66188787
EE10	4.25	3050	1.675286507	9.15786969	0.771063144	1.82650719	1.84963908	6.54947442
EW01	395	50450	9.413170499	51.4566245	4.332482122	10.2628557	10.3928301	36.8004631
EW02	22	5315	4.97644733	27.2034998	2.290447102	5.42564916	5.49436257	19.455248
EW03	10	2000	6.011322173	32.8605912	2.766755988	6.55393756	6.63694024	23.5010553

Chemical Name	Endosulfan Sulfate
Octanol-Water Partitioning Coefficient [$\log_{10} (K_{ow})$]	3.750
Organic Carbon Partitioning Coefficient [$\log_{10} (K_{oc})$]	3.380
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	1.14
Food Chain Multiplier - Trophic Level 4	1.04

Mean	Sediment Concentration (ug/kg)			Total Organic Carbon (mg/Kg)			Surface Water Concentration (ug/L)		
	EE01	EE02	EE03	EE01	EE02	EE03	EE01	EE02	EE03
EW01	105	207.3	12.87	25600	29600	22150	0.05	0.05	0.05
EW02	105	16	9.75	29600	29600	22150	0.05	0.05	0.05
EW03	105	16	9.75	22150	22150	2000	0.05	0.05	0.05
EE04	10.25			10780			0.05		
EE05	2570			5675			0.05		
EE06	18.23			31450			0.05		
EE07	3.35			5280			0.05		
EE08	2.225			5715			0.05		
EE09	3.05			29115			0.05		
EE10	4.1			3050			0.05		

Invertebrates	BCF _{lipid} 5623.413252		
	BCF	BAF _{lipid}	BAF
Aquatic Invertebrates	4	224.9	5623.4
Emergent Insects	3.5	196.8	5623.4
Trophic Level 2	%Lipid		
Forage Fish	4	224.9365	5623.413
Small Mammals	2	112.4683	5623.413
Trophic Level 3	%Lipid		
Amphibians	3	168.7024	6435.996
Reptiles	6	337.4048	6435.996
Small Birds	2	112.4683	6435.996

Plants	%Lipids		%Moisture
	Root	Fruit	
Root	3	1	82
Stem	1	1	82
Foliage	1	1	85
Fruit	5	5	75
K _{ow}	20.30145		
TSCF	0.159793		
K _{oxy}	7.313816		
K _{lw}	7.343816		
K _{ow}	33.21908		

Endosulfan Sulfate

	Sediment ug/Kg	Water ug/L	Plants				Invertebrates			Trophic Level 2			Trophic Level 3		
			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg			
EE01	105	0.05	34.7117388	2.00644652	9.07597738	384.60004	336.525035	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			
EE02	207.5	0.05	59.3271417	3.42929342	15.5120952	657.334431	575.167627	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			
EE03	12.87	0.05	4.91735827	0.28423861	1.28572737	54.483476	47.6730415	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			
EE04	10.25	0.05	8.04696551	0.46513965	2.10401667	89.1589809	78.0141083	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			
EE05	2570	0.05	3832.60704	221.336614	1002.10062	42464.6207	37156.5431	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			
EE06	18.25	0.05	4.91099231	0.28387064	1.28406288	54.4129423	47.6113245	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			
EE07	3.35	0.05	5.36955036	0.31037672	1.40396071	59.4936858	52.0569751	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			
EE08	2.225	0.05	3.29488921	0.19045485	0.8615051	36.5068004	31.9434504	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			
EE09	3.05	0.05	0.88656398	0.05124616	0.2318073	9.82297494	8.59510308	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			
EE10	4.1	0.05	11.3765624	0.65760071	2.97459668	126.050336	110.294044	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			
EW01	218.25	0.05	36.6117187	2.11627128	9.57275961	405.651488	354.945052	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			
EW02	16	0.05	25.4767338	1.4726345	6.66132748	282.277788	246.993064	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			
EW03	9.75	0.05	41.257381	2.38480501	10.7874474	457.124619	399.984042	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648			

Endosulfan Sulfate

Invertebrates	BAF	Trophic Level 2	BAF
Aquatic Invertebrates	224.93653	Forage Fish	224.936301
Emergent Insects	196.819464	Small Mammals	112.468265

Solubility
220

		Trophic Level 3	BAF
		Amphibians	193.0798943
		Reptiles	386.1597886
		Small Birds	128.7199295

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EE01	105	25600	1.709815831	384.60004	336.525035
EE02	207.5	29600	2.922310712	657.3344313	575.1676274
EE03	12.87	22150	0.242217109	54.48347603	47.67304153
EE04	10.25	10780	0.39637395	89.15898092	78.0141083
EE05	2570	5675	188.7849014	42464.62065	37156.54307
EE06	18.25	31450	0.241903337	54.4129423	47.61132451
EE07	3.35	5280	0.264490991	59.49368584	52.05697511
EE08	2.225	5715	0.162298229	36.50680045	31.94345039
EE09	3.05	29115	0.0436669985	9.822974943	8.595103075
EE10	4.1	3050	0.560381794	126.0503363	110.2940443
EW01	218.25	50450	1.803404221	405.6514878	354.9450518
EW02	16	5315	1.254921945	282.2777877	246.9930643
EW03	9.75	2000	2.03238244	457.124619	399.9840416

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EE01	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EE02	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EE03	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EE04	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EE05	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EE06	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EE07	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EE08	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EE09	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EE10	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EW01	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EW02	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EW03	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476

Endosulfan Sulfate

Krw 20.3014489
TSCF 0.15979252
KStXy 7.31381632
Klw 7.34381632
Kcw 33.2190816

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	105	25600	1.709815831	34.7117388	0.273215783	1.99825005	2.00644652	9.07597738
EE02	207.5	29600	2.922310712	59.3271417	0.466963397	3.41528451	3.42929342	15.5120952
EE03	12.87	22150	0.242217109	4.91735827	0.038704483	0.28307748	0.28423861	1.28572737
EE04	10.25	10780	0.39637395	8.04696551	0.063337593	0.46323952	0.46513965	2.10401667
EE05	2570	5675	188.7849014	3832.60704	30.16641543	220.631621	221.536614	1002.10062
EE06	18.25	31450	0.241903537	4.91099231	0.038654376	0.28271101	0.28387064	1.28406288
EE07	3.35	5280	0.264490991	5.36955036	0.042263682	0.30910881	0.31037672	1.40396071
EE08	2.225	5715	0.162298229	3.29488921	0.025934043	0.18967683	0.19045485	0.8615051
EE09	3.05	29115	0.043669985	0.88656398	0.006978137	0.05103681	0.05124616	0.2318073
EE10	4.1	3050	0.560381794	11.3765624	0.08954482	0.65491436	0.65760071	2.97459668
EW01	218.25	50450	1.803404221	36.6117187	0.288170508	2.10762616	2.11627128	9.57275961
EW02	16	5315	1.254921945	25.4767338	0.200527142	1.46661868	1.4726345	6.66132748
EW03	9.75	2000	2.032238244	41.257381	0.324736473	2.37506292	2.38480501	10.7874474

Chemical Name	Endosulfan Sulfate
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	3.750
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	3.380
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	1.14
Food Chain Multiplier - Trophic Level 4	1.04

Sediment Concentration (ug/kg)	Maximum			Surface Water Concentration (ug/L)
	EE01	EE02	EE03	
200	395	22	10	0.05
220	22			0.05
19.5				0.05
10.5				0.05
3040				0.05
19				0.05
4.7				0.05
2.4				0.05
4.1				0.05
4.23				0.05

Total Organic Carbon (mg/Kg)	Mean		
	EW01	EW02	EW03
25600	50450	3115	2000
29600			
22150			
10780			
5675			
31450			
5280			
5715			
29115			
3050			

Plants	%Lipids		%Moisture
	Root	Stem	Foliage
	3	1	82
		1	82
		5	85
			75

Invertebrates	BCF _{lipid}		
	BCF	BAF _{lipid}	BAF
Aquatic Invertebrates	224.9	5623.4	224.9
Emergent Insects	196.8	5623.4	196.8
Trophic Level 2			
Forage Fish	224.9365	5623.413	224.9365
Small Mammals	112.4683	5623.413	112.4683
Trophic Level 3			
Amphibians	168.7024	6435.996	193.0799
Reptiles	337.4048	6435.996	386.1598
Small Birds	112.4683	6435.996	128.7199

K_{ow}	20.30145
TSCF	0.159793
K_{soxy}	7.313816
K_{sw}	7.343816
K_{ow}	33.21908

Endosulfan Sulfate

Sediment ug/Kg	Water ug/L	Plants					Invertebrates				Trophic Level 2			Trophic Level 3		
		Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg					
EE01	200	0.05	66.1175977	3.8218029	17.287576	732.571505	641.000067	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				
EE02	220	0.05	62.9010659	3.63587736	16.4465588	696.932891	609.81628	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				
EE03	19.5	0.05	7.45054284	0.43066456	1.94807177	82.5507213	72.2318811	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				
EE04	10.5	0.05	8.24323296	0.47648452	2.15533415	91.3335902	79.9168914	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				
EE05	3040	0.05	4466.31877	258.167124	1167.79538	49486.0366	43300.282	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				
EE06	19	0.05	5.11281391	0.29553656	1.33683258	56.6490906	49.5679543	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				
EE07	4.7	0.05	7.53339901	0.43545391	1.96973593	83.4687533	73.0351591	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				
EE08	2.4	0.05	3.5540378	0.20543444	0.92926393	39.3781218	34.4558566	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				
EE09	4.1	0.05	1.19177452	0.06888828	0.31160982	13.2046548	11.554073	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				
EE10	4.25	0.05	11.7927781	0.68165927	3.08342339	130.661934	114.329192	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				
EW01	395	0.05	66.261759	3.83013587	17.3252694	734.168787	642.397688	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				
EW02	22	0.05	35.030509	2.02487243	9.15932529	388.131958	339.615463	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				
EW03	10	0.05	42.3152625	2.44595386	11.0640486	468.845763	410.240043	11.2468265	5.623413252	9.653994714	19.3079894	6.43599648				

Endosulfan Sulfate

Invertebrates	BAF	Trophic Level 2	BAF	Trophic Level 3	BAF
Aquatic Invertebrates	224.93653	Forage Fish	224.9365301	Amphibians	193.0798943
Emergent Insects	196.819464	Small Mammals	112.468265	Reptiles	386.1597886
		Solubility		Small Birds	128.7199295

220

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EB01	200	25600	3.256792058	732.5715048	641.0000667
EB02	220	29600	3.098353526	696.932891	609.8162797
EB03	19.5	22150	0.36699562	82.55072126	72.2318811
EB04	10.5	10780	0.406041607	91.33359021	79.91689143
EB05	3040	5675	220	49486.03662	43300.28204
EB06	19	31450	0.251844779	56.64909061	49.56795428
EB07	4.7	5280	0.371076913	83.46875327	73.03515911
EB08	2.4	5715	0.175063258	39.37812183	34.4558566
EB09	4.1	29115	0.058703915	13.20465484	11.55407299
EE10	4.25	3050	0.580883567	130.661934	114.3291922
EW01	395	50450	3.263893092	734.1687866	642.3976882
EW02	22	5315	1.725517674	388.1319581	339.6154634
EW03	10	2000	2.084346917	468.8457631	410.2400427

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EB01	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EB02	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EB03	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EB04	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EB05	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EB06	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EB07	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EB08	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EB09	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EE10	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EW01	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EW02	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476
EW03	0.05	11.2468265	5.623413252	9.653994714	19.30798943	6.435996476

Endosulfan Sulfate

Krw 20.3014489
 TSCF 0.15979252
 KStXy 7.31381632
 Klw 7.34381632
 Kcw 33.2190816

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	200	25600	3.256792058	66.1175977	0.520411015	3.80619057	3.8218029	17.287576
EE02	220	29600	3.098353526	62.9010659	0.495093723	3.62102455	3.63587736	16.4465588
EE03	19.5	22150	0.36699562	7.45054284	0.058643155	0.42890527	0.43066456	1.94807177
EE04	10.5	10780	0.406041607	8.24323296	0.064882412	0.47453805	0.47648452	2.15533415
EE05	3040	5675	220	4466.31877	35.15435474	257.112493	258.167124	1167.79538
EE06	19	31450	0.251844779	5.11281391	0.040242912	0.29432927	0.29553656	1.33683258
EE07	4.7	5280	0.371076913	7.53339901	0.059295316	0.43367505	0.43545391	1.96973593
EE08	2.4	5715	0.175063258	3.5540378	0.027973799	0.20459523	0.20543444	0.92926393
EE09	4.1	29115	0.058703915	1.19177452	0.009380447	0.06860686	0.06888828	0.31160982
EE10	4.25	3050	0.580883567	11.7927781	0.09282085	0.67887465	0.68165927	3.08342339
EW01	395	50450	3.263893092	66.261759	0.521545707	3.8144895	3.83013587	17.3252694
EW02	22	5315	1.725517674	35.030509	0.27572482	2.01660069	2.02487243	9.15932529
EW03	10	2000	2.084346917	42.3152625	0.33306305	2.43596197	2.44595386	11.0640486

Chemical Name	Heptachlor
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	4.610
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	3.840
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	2.15
Food Chain Multiplier - Trophic Level 4	1.62

Sediment Concentration (ug/kg)	Mean			Total Organic Carbon (mg/Kg)	Mean			Surface Water Concentration (ug/L)	Mean		
	EE01	EE02	EE03		EE01	EE02	EE03		EE01	EE02	EE03
55	EW01	113.25		25600	EW01	30450		0.025	EW01	0.025	
105	EW02	1.25		29600	EW02	3315		0.025	EW02	0.025	
6	EW03	4.925		22150	EW03	2000		0.025	EW03	0.025	
5.25				10780				0.025			
3600				5675				0.025			
47				31450				0.025			
9.025				5280				0.025			
25.625				5715				0.025			
1.1				29115				0.025			
32.3				3050				0.025			

Invertebrates		BCF _{lipid}		40738.02778	
%Lipid		BCF	BAF _{lipid}	BAF	BAF
Aquatic Invertebrates	4	1629.5	40738.0	1629.5	1629.5
Emergent Insects	3.5	1425.8	40738.0	1425.8	1425.8
Trophic Level 2					
%Lipid					
Forage Fish	4	1629.521	40738.03	1629.521	1629.521
Small Mammals	2	814.7606	40738.03	814.7606	814.7606
Trophic Level 3					
%Lipid					
Amphibians	3	1222.141	87688.6	2630.658	2630.658
Reptiles	6	2444.282	87688.6	5261.316	5261.316
Small Birds	2	814.7606	87688.6	1753.772	1753.772

Plants			
%Lipids		%Moisture	
Root	3		82
Stem	1		82
Foliage	1		83
Fruit	5		73
K _{ow}		86.84432	
TSCF		0.029432	
K _{soxy}		29.49477	
K _{lw}		29.52477	
K _{ow}		144.1239	

Heptachlor

	Sediment		Water ug/L	Plants				Invertebrates			Trophic Level 2			Trophic Level 3		
	ug/Kg	ug/L		Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg			
EE01	55	0.025	26.9689569	0.26985155	1.31726835	506.037516	442.782827	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				
EE02	105	0.025	44.5285972	0.44555343	2.17494922	835.521403	731.081228	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				
EE03	6	0.025	3.40031339	0.03402356	0.16608448	63.8024728	55.8271637	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				
EE04	5.25	0.025	6.11338811	0.0611706	0.29860156	114.709803	100.371078	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				
EE05	3600	0.025	4863.28199	48.6620305	237.541536	91253.1822	79846.5344	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				
EE06	47	0.025	18.7593866	0.18770654	0.91628113	351.995571	307.996125	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				
EE07	9.025	0.025	21.4562941	0.21469182	1.04800854	402.599545	352.274602	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				
EE08	26.625	0.025	58.4810023	0.58516128	2.85643874	1097.3202	960.155173	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				
EE09	3.1	0.025	1.33655343	0.01337356	0.06528245	25.0786925	21.943856	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				
EE10	32.5	0.025	133.759596	1.33839936	6.53333692	2509.82542	2196.09724	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				
EW01	113.25	0.025	28.1785386	0.28195464	1.37634901	528.733748	462.64203	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				
EW02	8.25	0.025	19.4846274	0.19496331	0.9517047	365.603775	319.903303	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				
EW03	4.925	0.025	30.9113281	0.30929895	1.50982903	580.011001	507.509625	40.7380278	20.36901389	65.76645367	131.532907	43.8443024				

Heptachlor

Invertebrates	BAF	Trophic Level 2	BAF
Aquatic Invertebrates	1629.52111	Forage Fish	1629.52111
Emergent Insects	1425.83097	Small Mammals	814.760556
		Solubility	

	BAF	Trophic Level 3	BAF
		Amphibians	2630.658147
		Reptiles	5261.316293
		Small Birds	1753.772098

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LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EB01	55	25600	0.310543701	506.0375163	442.7828268
EB02	105	29600	0.512740459	835.5214029	731.0812275
EB03	6	22150	0.039154125	63.80247282	55.82716371
EB04	5.25	10780	0.070394794	114.709803	100.3710776
EB05	3600	5675	56	91253.18223	79846.53445
EB06	47	31450	0.216011667	351.9955714	307.996125
EB07	9.025	5280	0.247066173	402.5995447	352.2746016
EB08	26.625	5715	0.673400418	1097.320198	960.1551729
EB09	3.1	29115	0.015390223	25.07869252	21.94385595
EB10	32.5	3050	1.540222707	2509.825416	2196.097239
EW01	113.25	50450	0.324471861	528.733748	462.6420295
EW02	8.25	5315	0.224362711	365.6037747	319.9033029
EW03	4.925	2000	0.355939544	580.0110005	507.5096255

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EB01	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB02	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB03	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB04	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB05	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB06	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB07	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB08	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB09	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB10	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EW01	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EW02	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EW03	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244

Heptachlor

Krw 86.8443213
TSCF 0.02943172
KStXy 29.4947738
Klw 29.5247738
Kcw 144.123869

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	55	25600	0.310543701	26.9689569	0.009139835	0.26957736	0.26985155	1.31726835
EE02	105	29600	0.512740459	44.5285972	0.015090833	0.4451007	0.44555343	2.17494922
EE03	6	22150	0.039154125	3.40031339	0.001152373	0.03398899	0.03402356	0.16608448
EE04	5.25	10780	0.070394794	6.11338811	0.00207184	0.06110845	0.0611706	0.29860156
EE05	3600	5675	56	4863.28199	1.648176238	48.6125853	48.6620305	237.541536
EE06	47	31450	0.216011667	18.7593866	0.006357595	0.18751581	0.18770654	0.91628113
EE07	9.025	5280	0.247066173	21.4562941	0.007271582	0.21447367	0.21469182	1.04800854
EE08	26.625	5715	0.673400418	58.4810023	0.019819332	0.5845667	0.58516128	2.85643874
EE09	3.1	29115	0.015390223	1.33655343	0.000452961	0.01335997	0.01337356	0.06528245
EE10	32.5	3050	1.540222707	133.759596	0.045331401	1.33703942	1.33839936	6.53333692
EW01	113.25	50450	0.324471861	28.1785386	0.009549764	0.28166814	0.28195464	1.37634901
EW02	8.25	5315	0.224362711	19.4846274	0.00660338	0.1947652	0.19496331	0.9517047
EW03	4.925	2000	0.355939544	30.9113281	0.010475912	0.30898467	0.30929895	1.50982903

Chemical Name	Heptachlor
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	4.819
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	3.849
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	2.15
Food Chain Multiplier - Trophic Level 4	1.62

	Maximum			Mean			Surface Water Concentration (ug/L)		
	Sediment Concentration (ug/kg)	Total Organic Carbon (mg/Kg)		EW01	EW02	EW03	EW01	EW02	EW03
EE01	105	25600	205	50450	0.025	0.025	0.025	0.025	0.025
EE02	110	29600	115	5315	0.025	0.025	0.025	0.025	0.025
EE03	10	22150	5	2000	0.025	0.025	0.025	0.025	0.025
EE04	5.5	10780			0.025	0.025	0.025	0.025	0.025
EE05	3900	5675			0.025	0.025	0.025	0.025	0.025
EE06	85	31450			0.025	0.025	0.025	0.025	0.025
EE07	17	5280			0.025	0.025	0.025	0.025	0.025
EE08	52	5715			0.025	0.025	0.025	0.025	0.025
EE09	4.1	29115			0.025	0.025	0.025	0.025	0.025
EE10	46	3050			0.025	0.025	0.025	0.025	0.025

	BCF _{lipid}			40738.02778		
	Invertebrates	BCF	BAF _{lipid}	BAF	BAF	BAF
Aquatic Invertebrates	%Lipid	4	1629.5	40738.0	1629.5	1629.5
Emergent Insects	%Lipid	3	1425.8	40738.0	1425.8	1425.8
Trophic Level 2	%Lipid	4	1629.521	40738.03	1629.521	1629.521
Forage Fish	%Lipid	2	814.7606	40738.03	814.7606	814.7606
Small Mammals	%Lipid	3	1222.141	87688.6	2630.658	2630.658
Trophic Level 3	%Lipid	6	2444.282	87688.6	5261.316	5261.316
Amphibians	%Lipid	2	814.7606	87688.6	1753.772	1753.772
Reptiles						
Small Birds						

	Plants	
	%Lipids	%Moisture
Root	3	82
Stem	1	82
Foliage	1	85
Fruit	5	75

K _{ow}	86.84432
TSCF	0.029432
K _{oc}	29.49477
K _{lw}	29.52477
K _{ow}	144.1239

Heptachlor

	Sediment ug/Kg	Water ug/L	Plants				Invertebrates			Trophic Level 2			Trophic Level 3		
			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg			
EE01	105	0.025	51.4861905	0.51517115	2.51478503	966.071622	845.312669	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			
EE02	110	0.025	46.6490066	0.46677026	2.27851823	875.308136	765.894619	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			
EE03	10	0.025	5.66718898	0.05670593	0.27680747	106.337455	93.0452729	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			
EE04	5.5	0.025	6.40450183	0.06408349	0.31282068	120.172175	105.150653	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			
EE05	3900	0.025	4863.28199	48.6620305	237.541536	91253.1822	79846.5344	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			
EE06	85	0.025	33.9265502	0.33946928	1.65710417	636.587736	557.014269	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			
EE07	17	0.025	40.416288	0.40440564	1.97408811	758.359253	663.564346	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			
EE08	52	0.025	114.216418	1.1428502	5.57877238	2143.12302	1875.23264	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			
EE09	4.1	0.025	1.7676997	0.01768761	0.0863413	33.1685933	29.0225192	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			
EE10	46	0.025	189.321274	1.89434987	9.24718456	3552.36828	3108.32225	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			
EW01	205	0.025	51.0075091	0.51038146	2.49140438	957.089787	837.453563	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			
EW02	11.5	0.025	27.1603897	0.27176703	1.32661867	509.629504	445.925816	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			
EW03	5	0.025	31.382059	0.31400908	1.53282135	588.843655	515.238198	40.7380278	20.36901389	65.76645367	131.532907	43.8443024			

Invertebrates	BAF	Trophic Level 2	BAF
Aquatic Invertebrates	1629.52111	Forage Fish	1629.52111
Emergent Insects	1425.83097	Small Mammals	814.7605556
		Solubility	

	Trophic Level 3	BAF
Amphibians		2630.658147
Reptiles		5261.316293
Small Birds		1753.772098

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LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EB01	105	25600	0.592856156	966.0716221	845.3126693
EB02	110	29600	0.537156672	875.3081363	765.8946193
EB03	10	22150	0.065256875	106.3374547	93.04527286
EB04	5.5	10780	0.073746927	120.1721746	105.1506527
EB05	3900	5675	56	91253.18223	79846.53445
EB06	85	31450	0.390659397	636.5877355	557.0142686
EB07	17	5280	0.465387805	758.3592531	663.5643465
EB08	52	5715	1.315185793	2143.123015	1875.232638
EB09	4.1	29115	0.02035481	33.16859333	29.02251916
EB10	46	3050	2.180007523	3552.368281	3108.322246
EW01	205	50450	0.587344208	957.0897867	837.4535634
EW02	11.5	5315	0.312748022	509.6295042	445.9258161
EW03	5	2000	0.361359943	588.8436554	515.2381984

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EB01	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB02	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB03	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB04	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB05	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB06	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB07	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB08	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB09	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EB10	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EW01	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EW02	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244
EW03	0.025	40.7380278	20.36901389	65.76645367	131.5329073	43.84430244

Heptachlor

Krw 86.8443213
 TSCF 0.02943172
 KStXy 29.4947738
 Klw 29.5247738^g
 Kcw 144.123869

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	105	25600	0.592856156	51.4861905	0.017448776	0.51464769	0.51517115	2.51478503
EE02	110	29600	0.537156672	46.6490066	0.015809444	0.46629597	0.46677026	2.27851823
EE03	10	22150	0.065256875	5.66718898	0.001920622	0.05664831	0.05670593	0.27680747
EE04	5.5	10780	0.073746927	6.40450183	0.002170499	0.06401837	0.06408349	0.31282068
EE05	3900	5675	56	4863.28199	1.648176238	48.6125853	48.6620305	237.541536
EE06	85	31450	0.390659397	33.9265502	0.011497777	0.33912434	0.33946928	1.65710417
EE07	17	5280	0.465387805	40.416288	0.013697163	0.40399472	0.40440564	1.97408811
EE08	52	5715	1.315185793	114.216418	0.038708178	1.14168896	1.1428502	5.57877238
EE09	4.1	29115	0.02035481	1.7676997	0.000599077	0.01766964	0.01768761	0.0863413
EE10	46	3050	2.180007523	189.321274	0.064161368	1.89242503	1.89434987	9.24718456
EW01	205	50450	0.587344208	51.0075091	0.017286549	0.50986286	0.51038146	2.49140438
EW02	11.5	5315	0.312748022	27.1603897	0.009204712	0.27149089	0.27176703	1.32661867
EW03	5	2000	0.361359943	31.382059	0.010635444	0.31369002	0.31400908	1.53282135

Chemical Name	High Molecular Weight PAHs
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	5.99
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	4.6
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	9.80
Food Chain Multiplier - Trophic Level 4	14.17

Sediment Concentration (ug/kg)	Mean			Total Organic Carbon (mg/Kg)	Mean			Surface Water Concentration (ug/L)
	EE01	EE02	EE03		EE01	EE02	EE03	
EE01	15205	3118.5	25608	50450	10	15		
EE02	120200	1777	29608	5315	12.5	15		
EE03	36948	1293	22150	2000	12.5	15		
EE04	20503		10780		12.5	15		
EE05	33085		5675		13.85	15		
EE06	9272.3		31450		15	15		
EE07	1988.5		5280		15	15		
EE08	2041		5715		15	15		
EE09	1130.5		29115		15	15		
EE10	1009		3050		15	15		

Invertebrates	BCF _{lipid}			977237.221
	BCF	BAF _{lipid}	BAF	
Aquatic Invertebrates	4	39089.5	977237.2	39089.5
Emergent Insects	3.5	34203.3	977237.2	34203.3
Trophic Level 2	%Lipid			
Forage Fish	4	39089.49	977237.2	39089.49
Small Mammals	2	19544.74	977237.2	19544.74
Trophic Level 3	%Lipid			
Amphibians	3	29317.12	9576925	287307.7
Reptiles	6	58634.23	9576925	574615.5
Small Birds	2	19544.74	9576925	191538.5

Plants	%Lipids	%Moisture
	3	82
1	82	
1	85	
5	75	

K _{ow}	933.2608
TSCF	0.000549
K _{oxy}	311.6336
K _{lw}	311.6636
K _{ow}	1554.818

High Molecular Weight PAHs

	Sediment ug/Kg	Water ug/L	Plants				Invertebrates				Trophic Level 2			Trophic Level 3			
			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg					
EE01	15205	10	13923.5337	2.55296084	12.7361343	583185.142	510286.999	390894.888	195447.4442	2873077.452	5746154.9	1915384.97					
EE02	120200	12.5	57862.1678	10.6093648	52.9276804	2423548.31	2120604.77	488618.61	244309.3052	3591346.815	7182693.63	2394231.21					
EE03	36948	12.5	39103.9128	7.16992973	35.7691299	1637861.58	1433128.88	488618.61	244309.3052	3591346.815	7182693.63	2394231.21					
EE04	20505	12.5	44590.6726	8.17595905	40.7879788	1867673.7	1634214.49	488618.61	244309.3052	3591346.815	7182693.63	2394231.21					
EE05	33085	13.85	57862.1678	10.6093648	52.9276804	2423548.31	2120604.77	541389.42	270694.7102	3979212.271	7958424.54	2652808.18					
EE06	9272.5	15	6911.60966	1.26728381	6.32218739	289491.745	253305.277	586342.333	293171.1663	4309616.178	8619232.36	2873077.45					
EE07	1948.5	15	8651.06347	1.58622278	7.91330052	362348.509	317054.946	586342.333	293171.1663	4309616.178	8619232.36	2873077.45					
EE08	2041	15	8372.01082	1.53505685	7.65804549	350660.43	306827.876	586342.333	293171.1663	4309616.178	8619232.36	2873077.45					
EE09	1130.5	15	910.241816	0.16689813	0.83261637	38125.3434	33359.6754	586342.333	293171.1663	4309616.178	8619232.36	2873077.45					
EE10	1009	15	7755.22385	1.42196538	7.09385813	324826.399	284223.1	586342.333	293171.1663	4309616.178	8619232.36	2873077.45					
EW01	8118.5	15	3772.39912	0.69169131	3.45068882	158006.377	138255.58	586342.333	293171.1663	4309616.178	8619232.36	2873077.45					
EW02	1777	15	7837.67354	1.43708301	7.16927651	328279.793	287244.818	586342.333	293171.1663	4309616.178	8619232.36	2873077.45					
EW03	1293	15	15155.5444	2.77885716	13.8630791	634787.726	555439.26	586342.333	293171.1663	4309616.178	8619232.36	2873077.45					

High Molecular Weight PAHs

Lab No. 46

Invertebrates	BAF	Trophic Level 2	BAF
Aquatic Invertebrates	39089.4888	Forage Fish	39089.48884
Emergent Insects	34203.3027	Small Mammals	19544.74442
		Solubility	

Trophic Level 3	BAF
Amphibians	287307.7452
Reptiles	574615.4904
Small Birds	191538.4968

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LOCATION	Sediment ug/kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EE01	15205	25600	14.91923172	583185.1416	510286.9989
EE02	120200	29600	62	2423548.308	2120604.769
EE03	36948	22150	41.90030694	1637861.58	1433128.883
EE04	20505	10780	47.77943532	1867673.704	1634214.491
EE05	33085	5675	62	2423548.308	2120604.769
EE06	9272.5	31450	7.40587184	289491.7446	253305.2765
EE07	1948.5	5280	9.269717257	362348.5093	317054.9456
EE08	2041	5715	8.970709023	350660.4302	306827.8765
EE09	1130.5	29115	0.975334917	38125.34335	33359.67543
EE10	1009	3050	8.309814457	324826.3995	284223.0995
EW01	8118.5	50450	4.042170465	158006.3773	138255.5801
EW02	1777	5315	8.39816028	328279.7925	287244.8185
EW03	1293	2000	16.23934578	634787.7256	555439.2599

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EE01	10	390894.888	195447.4442	2873077.452	5746154.904	1915384.968
EE02	12.5	488618.61	244309.3052	3591346.815	7182693.629	2394231.21
EE03	12.5	488618.61	244309.3052	3591346.815	7182693.629	2394231.21
EE04	12.5	488618.61	244309.3052	3591346.815	7182693.629	2394231.21
EE05	13.85	541389.42	270694.7102	3979212.271	7958424.541	2652808.18
EE06	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE07	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE08	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE09	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE10	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EW01	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EW02	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EW03	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452

High Molecular Weight PAHs

Krw 933.260771
 TSCF 0.00054905
 KStXy 311.63359
 Klw 311.66359
 Kcw 1554.81795

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EEO1	15205	25600	14.91923172	13923.5337	0.008191399	2.5527151	2.55296084	12.7361343
EE02	120200	29600	62	57862.1678	0.034041079	10.6083436	10.6093648	52.9276804
EE03	36948	22150	41.90030694	39103.9128	0.023005349	7.16923957	7.16992973	35.7691299
EE04	20505	10780	47.77943532	44590.6726	0.026233283	8.17517205	8.17595905	40.7879788
EE05	33085	5675	62	57862.1678	0.034041079	10.6083436	10.6093648	52.9276804
EE06	9272.5	31450	7.40587184	6911.60966	0.004066191	1.26716183	1.26728381	6.32218739
EE07	1948.5	5280	9.269717257	8651.06347	0.005089535	1.58607009	1.58622278	7.91330052
EE08	2041	5715	8.970709023	8372.01082	0.004925365	1.53490909	1.53505685	7.65804549
EE09	1130.5	29115	0.975334917	910.241816	0.000535507	0.16688206	0.16689813	0.83261637
EE10	1009	3050	8.309814457	7755.22385	0.004562501	1.4218285	1.42196538	7.09385813
EW01	8118.5	50450	4.042170465	3772.39912	0.002219352	0.69162473	0.69169131	3.45068882
EW02	1777	5315	8.39816028	7837.67354	0.004611007	1.43694468	1.43708301	7.16927651
EW03	1293	2000	16.23934578	15155.5444	0.008916207	2.77858968	2.77885716	13.8630791

Chemical Name	High Molecular Weight PAHs
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	5.99
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	4.6
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	9.80
Food Chain Multiplier - Trophic Level 4	14.17

Sediment Concentration (ug/kg)	Maximum			Total Organic Carbon (mg/Kg)	Mean			Surface Water Concentration (ug/L)
	EE01	EE02	EE03		EE01	EE02	EE03	
EE01	27490	11600	11600	25600	50450	15	EW01	15
EE02	213400	1780	1780	29600	5315	15	EW02	15
EE03	53310	2386	2386	22150	2000	15	EW03	15
EE04	33490			10780		15	EW04	15
EE05	41920			5675		15	EW05	15
EE06	15670			31450		15	EW06	15
EE07	3192			5280		15	EW07	15
EE08	2110			5715		15	EW08	15
EE09	1305			29115		15	EW09	15
EE10	1180			3050		15	EW10	15

Invertebrates	BCF _{lipid}			977237.221
	%Lipid	BCF	BAF _{lipid}	
Aquatic Invertebrates	4	39089.5	977237.2	39089.5
Emergent Insects	3.5	34203.3	977237.2	34203.3
Trophic Level 2	%Lipid			
Forage Fish	4	39089.49	977237.2	39089.49
Small Mammals	2	19544.74	977237.2	19544.74
Trophic Level 3	%Lipid			
Amphibians	3	29317.12	9576925	287307.7
Reptiles	6	58634.23	9576925	574615.5
Small Birds	2	19544.74	9576925	191538.5

Plants	%Lipids		%Moisture
	%Lipids	%Moisture	
Root	3	82	82
Stem	1	82	82
Foliage	1	85	85
Fruit	5	75	75
K _{ow}			933.2608
TSCF			0.000549
K _{oxy}			311.6336
K _{lw}			311.6636
K _{ow}			1554.818

High Molecular Weight PAHs

	Sediment ug/Kg	Water ug/L	Plants				Invertebrates			Trophic Level 2			Trophic Level 3		
			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg			
EE01	27490	15	25173.1629	4.61564575	23.0263948	1054374.19	922577.415	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			
EE02	215400	15	57862.1678	10.6093648	52.9276804	2423548.31	2120604.77	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			
EE03	53310	15	56420.6341	10.3450513	51.6090808	2363169.88	2067773.65	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			
EE04	33490	15	57862.1678	10.6093648	52.9276804	2423548.31	2120604.77	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			
EE05	41920	15	57862.1678	10.6093648	52.9276804	2423548.31	2120604.77	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			
EE06	15670	15	11680.229	2.14163789	10.6841387	489224.658	428071.575	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			
EE07	3192	15	14172.027	2.59852354	12.9634361	593593.247	519394.091	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			
EE08	2110	15	8655.04303	1.58695245	7.91694071	362515.192	317200.793	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			
EE09	1305	15	1050.74354	0.19265994	0.9611361	44010.2371	38508.9575	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			
EE10	1180	15	9069.53829	1.66295257	8.2960878	379876.265	332391.732	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			
EW01	11600	15	5390.13732	0.98831301	4.93046625	225765.101	197544.464	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			
EW02	1780	15	7850.9054	1.43950915	7.18137996	328834.007	287729.756	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			
EW03	2386	15	27966.8437	5.12788337	25.5818304	1171387.09	1024963.71	586342.333	293171.1663	4309616.178	8619232.36	2873077.45			

High Molecular Weight PAHs

4.6

Invertebrates	BAF	Trophic Level 2	BAF
Aquatic Invertebrates	39089.4888	Forege Fish	39089.48884
Emergent Insects	34203.3027	Small Mammals	19544.74442
		Solubility	

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LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EB01	27490	25600	26.97334297	1054374.189	922577.4153
EB02	215400	29600	62	2423548.308	2120604.769
EB03	53310	22150	60.45537953	2363169.883	2067773.648
EB04	33490	10780	62	2423548.308	2120604.769
EB05	41920	5675	62	2423548.308	2120604.769
EB06	15670	31450	12.5155041	489224.6577	428071.5755
EB07	3192	5280	15.18549525	593593.2469	519394.091
EB08	2110	5715	9.273981401	362515.1924	317200.7934
EB09	1305	29115	1.125884181	44010.23713	38508.95749
EE10	1180	3050	9.718117997	379876.265	332391.7319
EW01	11600	50450	5.775596156	225765.1015	197544.4638
EW02	1780	5315	8.412338378	328834.0071	287729.7563
EW03	2386	2000	29.96680513	1171387.095	1024963.708

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EE01	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE02	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE03	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE04	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE05	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE06	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE07	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE08	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE09	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EE10	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EW01	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EW02	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452
EW03	15	586342.333	293171.1663	4309616.178	8619232.355	2873077.452

High Molecular Weight PAHs

Krw 933.260771
 TSCF 0.00054905
 KStXy 311.63359
 Klw 311.66359
 Kcw 1554.81795

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EEO1	27490	25600	26.97334297	25173.1629	0.014809705	4.61520146	4.61564575	23.0263948
EE02	215400	29600	62	57862.1678	0.034041079	10.6083436	10.6093648	52.9276804
EE03	53310	22150	60.45537953	56420.6341	0.033193005	10.3440555	10.3450513	51.6090808
EE04	33490	10780	62	57862.1678	0.034041079	10.6083436	10.6093648	52.9276804
EE05	41920	5675	62	57862.1678	0.034041079	10.6083436	10.6093648	52.9276804
EE06	15670	31450	12.5155041	11680.229	0.006871633	2.14143174	2.14163789	10.6841387
EE07	3192	5280	15.18549525	14172.027	0.008337591	2.59827341	2.59852354	12.9634361
EE08	2110	5715	9.273981401	8655.04303	0.005091876	1.5867997	1.58695245	7.91694071
EE09	1305	29115	1.125884181	1050.74354	0.000618166	0.19264139	0.19265994	0.9611361
EE10	1180	3050	9.718117997	9069.53829	0.005335729	1.6627925	1.66295257	8.2960878
EW01	11600	50450	5.775596156	5390.13732	0.003171089	0.98821788	0.98831301	4.93046625
EW02	1780	5315	8.412338378	7850.9054	0.004618792	1.43937058	1.43950915	7.18137996
EW03	2386	2000	29.96680513	27966.8437	0.016453264	5.12738977	5.12788337	25.5818304

Chemical Name	Pentachlorophenol
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	5.060
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	4.090
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	3.37
Food Chain Multiplier - Trophic Level 4	2.83

Sediment Concentration (ug/kg)	Mean			Total Organic Carbon (mg/Kg)	Mean			Surface Water Concentration (ug/L)	Mean		
	EE01	EE02	EE03		EE01	EE02	EE03		EE01	EE02	EE03
2925	2900	2900	2900	25600	50450	25	25	25	25	25	
7150	1000	1000	1000	29600	5315	25	25	25	25	25	
2825	950	950	950	22150	2000	25	25	25	25	25	
975				10780		25	25	25	25	25	
7250				5675		25	25	25	25	25	
5350				31450		25	25	25	25	25	
1050				5280		25	25	25	25	25	
1675				5715		25	25	25	25	25	
1000				29115		25	25	25	25	25	
975				3050		25	25	25	25	25	

Invertebrates		BCF _{lipid}		114815.3621	
Aquatic Invertebrates	%Lipid	BCF	BAF _{lipid}	BAF	BAF
Emergent Insects	4	4592.6	114815.4	4592.6	4592.6
Trophic Level 2	3.5	4018.5	114815.4	4018.5	4018.5
Trophic Level 2		BCF _{lipid}		114815.3621	
Forage Fish	%Lipid	BCF	BAF _{lipid}	BAF	BAF
Small Mammals	4	4592.614	114815.4	4592.614	4592.614
Trophic Level 3	2	2296.307	114815.4	2296.307	2296.307
Trophic Level 3		BCF _{lipid}		114815.3621	
Amphibians	%Lipid	BCF	BAF _{lipid}	BAF	BAF
Reptiles	3	3444.461	386445.5	11593.37	11593.37
Small Birds	6	6888.922	386445.5	23186.73	23186.73
	2	2296.307	386445.5	7728.911	7728.911

Plants		K _{ow}	
Root	%Lipids	%Moisture	K _{ow}
Stem	1	82	187.9405
Foliage	1	82	0.009537
Fruit	1	85	63.19348
	5	75	63.22348
			312.6174

Pentachlorophenol

	Sediment		Water ug/L	Plants				Invertebrates			Trophic Level 2			Trophic Level 3		
	ug/Kg	ug/L		Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg			
EE01	2925	25	1745.445	5.60012477	27.6906055	42652.638	37321.0582	114815.362	57407.68107	289834.1618	579668.324	193222.775				
EE02	7150	25	3690.06991	11.8393028	58.5411	90172.5439	78900.9759	114815.362	57407.68107	289834.1618	579668.324	193222.775				
EE03	2825	25	1948.34107	6.25110105	30.9094495	47610.716	41659.3765	114815.362	57407.68107	289834.1618	579668.324	193222.775				
EE04	975	25	1381.6757	4.4329992	21.9195888	33763.3745	29542.9527	114815.362	57407.68107	289834.1618	579668.324	193222.775				
EE05	7250	25	19516.0717	62.6158007	309.612644	476905.281	417292.121	114815.362	57407.68107	289834.1618	579668.324	193222.775				
EE06	5350	25	2598.68354	8.33767438	41.2268051	63502.8364	55564.9818	114815.362	57407.68107	289834.1618	579668.324	193222.775				
EE07	1050	25	3037.91515	9.7469149	48.1949933	74236.1376	64956.6204	114815.362	57407.68107	289834.1618	579668.324	193222.775				
EE08	1675	25	4477.32727	14.3651569	71.0305414	109410.39	95734.0917	114815.362	57407.68107	289834.1618	579668.324	193222.775				
EE09	1000	25	524.690824	1.68342977	8.32395557	12821.6287	11218.9251	114815.362	57407.68107	289834.1618	579668.324	193222.775				
EE10	975	25	4883.43083	15.6681086	77.4731696	119334.156	104417.387	114815.362	57407.68107	289834.1618	579668.324	193222.775				
EW01	2900	25	878.126516	2.81740075	13.9310347	21458.3744	18776.0776	114815.362	57407.68107	289834.1618	579668.324	193222.775				
EW02	1000	25	2874.20007	9.22164775	45.5977359	70235.5071	61456.0687	114815.362	57407.68107	289834.1618	579668.324	193222.775				
EW03	950	25	7256.27734	23.2812025	115.117184	177318.317	155153.528	114815.362	57407.68107	289834.1618	579668.324	193222.775				

Invertebrates	BAF	Trophic Level 2	BAF
Aquatic Invertebrates	4592.61449	Forage Fish	4592.61486
Emergent Insects	4018.53768	Small Mammals	2296.307243
		Solubility	14000

	BAF	Trophic Level 3	BAF
	11593.36647	Amphibians	11593.36647
	23186.73295	Reptiles	23186.73295
	7728.910982	Small Birds	7728.910982

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EE01	2925	25600	9.287223671	42652.63797	37321.05822
EE02	7150	29600	19.63425064	90172.54393	78900.97594
EE03	2825	22150	10.36680004	47610.71602	41659.37652
EE04	975	10780	7.35166747	33763.37452	29542.9527
EE05	7250	5675	103.841784	476905.2815	417292.1213
EE06	5350	31450	13.82716458	63502.83637	55564.98182
EE07	1050	5280	16.16424322	74236.13756	64956.62037
EE08	1675	5715	23.82311662	109410.3905	95734.09166
EE09	1000	29115	2.791792946	12821.62872	11218.92513
EE10	975	3050	25.98392634	119334.1565	104417.3869
EW01	2900	50450	4.672365702	21458.37441	18776.07761
EW02	1000	5315	15.29314235	70235.50712	61456.06873
EW03	950	2000	38.60944952	177318.3172	155153.5275

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EE01	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE02	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE03	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE04	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE05	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE06	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE07	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE08	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE09	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE10	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EW01	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EW02	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EW03	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746

Chemical Name	Pentachlorophenol
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	5.060
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	4.090
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	3.37
Food Chain Multiplier - Trophic Level 4	2.83

	Maximum			Mean			Maximum				
	Sediment Concentration (ug/kg)			Total Organic Carbon (mg/Kg)			Surface Water Concentration (ug/L)				
EE01	4850	EW01	3800	EE01	25600	EW01	\$0450	EE01	25	EW01	25
EE02	10300	EW02	1030	EE02	29600	EW02	5315	EE02	25	EW02	25
EE03	3800	EW03	1000	EE03	22150	EW03	2000	EE03	25	EW03	25
EE04	1000			EE04	10780			EE04	25		
EE05	9300			EE05	5675			EE05	25		
EE06	9000			EE06	31450			EE06	25		
EE07	1150			EE07	5260			EE07	25		
EE08	2350			EE08	5715			EE08	25		
EE09	1000			EE09	29115			EE09	25		
EE10	1000			EE10	3050			EE10	25		

		BCF _{lipid}	114815.3621
Invertebrates			
	%Lipid	BAF _{lipid}	BAF
Aquatic Invertebrates	4	4592.6	114815.4
Emergent Insects	3	4018.5	114815.4
Trophic Level 2			
	%Lipid		
Forage Fish	4	4592.614	114815.4
Small Mammals	2	2296.307	114815.4
Trophic Level 3			
	%Lipid		
Amphibians	3	3444.461	386445.5
Reptiles	6	6888.922	386445.5
Small Birds	2	2296.307	386445.5

Plants	
	%Lipids
Root	3
Stem	1
Foliage	1
Fruit	5
	%Moisture
Root	82
Stem	82
Foliage	83
Fruit	73

K _{ow}	187.9405
TSCF	0.009537
K _{oxy}	63.19348
K _{lw}	63.22348
K _{ow}	312.6174

Pentachlorophenol

	Sediment ug/Kg	Water ug/L	Plants				Invertebrates			Trophic Level 2			Trophic Level 3		
			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg			
EE01	4850	25	2894.15667	9.28567697	45.9143374	70723.1775	61882.7803	114815.362	57407.68107	289834.1618	579668.324	193222.775			
EE02	10500	25	5418.98379	17.3863887	85.9694476	132421.218	115868.566	114815.362	57407.68107	289834.1618	579668.324	193222.775			
EE03	3800	25	2620.77737	8.40856071	41.5773125	64042.7331	56037.3914	114815.362	57407.68107	289834.1618	579668.324	193222.775			
EE04	1000	25	1417.10328	4.54666584	22.4816295	34629.1021	30300.4643	114815.362	57407.68107	289834.1618	579668.324	193222.775			
EE05	9500	25	25572.7836	82.0482906	405.699327	624910.369	546796.573	114815.362	57407.68107	289834.1618	579668.324	193222.775			
EE06	9000	25	4371.61718	14.0259943	69.3535039	106827.201	93473.8012	114815.362	57407.68107	289834.1618	579668.324	193222.775			
EE07	1150	25	3327.24041	10.6751925	52.7849927	81306.2459	71142.9652	114815.362	57407.68107	289834.1618	579668.324	193222.775			
EE08	2350	25	6281.62334	20.1541008	99.6547894	153501.145	134313.502	114815.362	57407.68107	289834.1618	579668.324	193222.775			
EE09	1000	25	524.690824	1.68342977	8.32395557	12821.6287	11218.9251	114815.362	57407.68107	289834.1618	579668.324	193222.775			
EE10	1000	25	5008.647	16.069855	79.4596611	122394.007	107094.756	114815.362	57407.68107	289834.1618	579668.324	193222.775			
EW01	3800	25	1150.64854	3.69176649	18.2544593	28117.8699	24603.1362	114815.362	57407.68107	289834.1618	579668.324	193222.775			
EW02	1050	25	3017.91007	9.68273014	47.8776227	73747.2825	64528.8722	114815.362	57407.68107	289834.1618	579668.324	193222.775			
EW03	1000	25	7638.18668	24.5063289	121.175983	186650.86	163319.503	114815.362	57407.68107	289834.1618	579668.324	193222.775			

Pentachlorophenol BAF 4.09

Invertebrates	BAF	BAF	BAF
Aquatic Invertebrates	4592.61449	Trophic Level 2	4592.614486
Emergent Insects	4018.53768	Forage Fish	2296.307243
		Small Mammals	
		Solubility	14000
		Trophic Level 3	
		Amphibians	11593.36647
		Reptiles	23186.73295
		Small Birds	7728.910982

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EE01	4850	25600	15.39932814	70723.17748	61882.7803
EE02	10500	29600	28.83351493	132421.2184	115868.5661
EE03	3800	22150	13.94472217	64042.73306	56037.39142
EE04	1000	10780	7.540171764	34629.10207	30300.46431
EE05	9500	5675	136.0685446	624910.3688	546796.5727
EE06	9000	31450	23.2606507	106827.2014	93473.80119
EE07	1150	5280	17.70369495	81306.2459	71142.96516
EE08	2350	5715	33.42347704	153501.1448	134313.5017
EE09	1000	29115	2.791792946	12821.62872	11218.92513
EE10	1000	3050	26.65018086	122394.0067	107094.7558
EW01	3800	50450	6.122410231	28117.86991	24603.13618
EW02	1050	5315	16.05779947	73747.28247	64528.87216
EW03	1000	2000	40.64152581	186650.8602	163319.5026

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EE01	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE02	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE03	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE04	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE05	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE06	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE07	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE08	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE09	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EE10	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EW01	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EW02	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746
EW03	25	114815.362	57407.68107	289834.1618	579668.3237	193222.7746

Pentachlorophenol

Krw 187.940451
TSCF 0.00953747
KStXy 63.1934835
Klw 63.2234835
Kcw 312.617418

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EEO1	4850	25600	15.39932814	2894.15667	0.146870695	9.28127085	9.28567697	45.9143374
EE02	10500	29600	28.83351493	5418.98379	0.274998905	17.3781388	17.3863887	85.9694476
EE03	3800	22150	13.94472217	2620.77737	0.132997428	8.40457078	8.40856071	41.5773125
EE04	1000	10780	7.540171764	1417.10328	0.071914194	4.54450842	4.54666584	22.4816295
EE05	9500	5675	136.0685446	25572.7836	1.297750234	82.0093581	82.0482906	405.699327
EE06	9000	31450	23.2606507	4371.61718	0.221847856	14.0193388	14.0259943	69.3535039
EE07	1150	5280	17.70369495	3327.24041	0.168848534	10.6701271	10.6751925	52.7849927
EE08	2350	5715	33.42347704	6281.62334	0.31877555	20.1445375	20.1541008	99.6547894
EE09	1000	29115	2.791792946	524.690824	0.026626653	1.68263097	1.68342977	8.32395557
EE10	1000	3050	26.65018086	5008.647	0.254175413	16.0622298	16.069855	79.4596611
EW01	3800	50450	6.122410231	1150.64854	0.05839233	3.69001472	3.69176649	18.2544593
EW02	1050	5315	16.05779947	3017.91007	0.153150848	9.67813561	9.68273014	47.8776227
EW03	1000	2000	40.64152581	7638.18668	0.387617504	24.4949004	24.5065289	121.175983

Chemical Name	Total PCBs
Octanol-Water Partitioning Coefficient [$\log_{10}(K_{ow})$]	6.300
Organic Carbon Partitioning Coefficient [$\log_{10}(K_{oc})$]	4.630
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	13.23
Food Chain Multiplier - Trophic Level 4	23.28

Sediment Concentration (ug/kg)	Mean			Surface Water Concentration (ug/L)
	EE01	EE02	EE03	
EW01	6920	30215	682	0.75
EW02	19732.5	883	522.5	0.5
EW03	522.5	522.5	522.5	0.5
EE04	652.5	10780	10780	0.5
EE05	40000	5675	5675	0.5
EE06	1612.5	31450	31450	0.5
EE07	229	5280	5280	0.5
EE08	144.25	5715	5715	0.5
EE09	188	29115	29115	0.5
EE10	331	3050	3050	0.5

Total Organic Carbon (mg/kg)	Mean		
	EW01	EW02	EW03
EE01	25600	30450	30450
EE02	29600	5315	5315
EE03	22150	2000	2000
EE04	10780	10780	10780
EE05	5675	5675	5675
EE06	31450	31450	31450
EE07	5280	5280	5280
EE08	5715	5715	5715
EE09	29115	29115	29115
EE10	3050	3050	3050

Invertebrates	BCF _{lipid}			1995262.315		
	%Lipid	BCF	BAF _{lipid}	BAF	BAF	BAF
Aquatic Invertebrates	4	79810.5	1995262.3	79810.5	79810.5	79810.5
Emergent Insects	3.5	69834.2	1995262.3	69834.2	69834.2	69834.2
Trophic Level 2	%Lipid					
Forage Fish	4	79810.49	1995262	79810.49	79810.49	79810.49
Small Mammals	2	39905.25	1995262	39905.25	39905.25	39905.25
Trophic Level 3	%Lipid					
Amphibians	3	59857.87	26393330	791799.9	791799.9	791799.9
Reptiles	6	119715.7	26393330	1583600	1583600	1583600
Small Birds	2	39905.25	26393330	527866.6	527866.6	527866.6

Plants	%Lipids		%Moisture	
	Root	Stem	Foliage	Fruit
Root	3	1	82	82
Stem	1	1	82	82
Foliage	1	1	85	85
Fruit	5	5	75	75

K _{ow}	1593.473
TSCF	0.000181
K _{soxy}	531.7044
K _{ow}	531.7344
K _{ow}	2655.172

Total PCBs

Invertebrates	BAF	Trophic Level 2	BAF	Trophic Level 3	BAF
Aquatic Invertebrates	79810.4926	Forage Fish	79810.4926	Amphibians	791799.8971
Emergent Insects	69834.181	Small Mammals	39905.2463	Reptiles	1583599.794
		Solubility	5.7	Small Birds	527866.598

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EE01	6920	25600	5.7	454919.8078	398054.8318
EE02	30215	29600	5.7	454919.8078	398054.8318
EE03	682	22150	0.72178964	57606.3867	50405.58836
EE04	652.5	10780	1.418932562	113245.7067	99089.99341
EE05	40000	5675	5.7	454919.8078	398054.8318
EE06	1612.5	31450	1.201929719	95926.6029	83935.77754
EE07	229	5280	1.016720452	81144.96012	71001.8401
EE08	144.25	5715	0.591697299	47223.65293	41320.69632
EE09	188	29115	0.151370434	12080.94887	10570.83026
EE10	331	3050	2.544064714	203043.0581	177662.6758
EW01	19732.5	50450	5.7	454919.8078	398054.8318
EW02	885	5315	3.903372534	311530.0847	272588.8241
EW03	522.5	2000	5.7	454919.8078	398054.8318

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EE01	0.75	59857.8694	29928.93472	593849.9228	1187699.846	395899.9485
EE02	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EE03	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EE04	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EE05	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EE06	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EE07	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EE08	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EE09	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EE10	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EW01	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EW02	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EW03	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299

Total PCBs

Krw 1593.47333
TSCF 0.0001811
KStXy 531.704444
Klw 531.734444
Kcw 2655.17222

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EEO1	6920	25600	5.7	9082.798	0.00103227	0.54886265	0.54889361	2.74085512
EE02	30215	29600	5.7	9082.798	0.00103227	0.54886265	0.54889361	2.74085512
EE03	682	22150	0.72178964	1150.15254	0.000130716	0.06950235	0.06950627	0.34707383
EE04	652.5	10780	1.418932562	2261.0312	0.000256969	0.13663142	0.13663913	0.68229624
EE05	40000	5675	5.7	9082.798	0.00103227	0.54886265	0.54889361	2.74085512
EE06	1612.5	31450	1.201929719	1915.24295	0.00021767	0.11573585	0.11574238	0.57795004
EE07	229	5280	1.016720452	1620.11693	0.000184128	0.09790173	0.09790726	0.48889184
EE08	144.25	5715	0.591697299	942.853868	0.000107156	0.05697553	0.05697875	0.2845187
EE09	188	29115	0.151370434	241.204749	2.74132E-05	0.01457572	0.01457654	0.07278674
EE10	331	3050	2.544064714	4053.89928	0.00046073	0.2449723	0.24498612	1.22331804
EW01	19732.5	50450	5.7	9082.798	0.00103227	0.54886265	0.54889361	2.74085512
EW02	885	5315	3.903372534	6219.92004	0.000706901	0.37586235	0.37588355	1.87694362
EW03	522.5	2000	5.7	9082.798	0.00103227	0.54886265	0.54889361	2.74085512

Chemical Name	Total PCBs
Octanol-Water Partitioning Coefficient [$\log_{10} (K_{ow})$]	6.309
Organic Carbon Partitioning Coefficient [$\log_{10} (K_{oc})$]	4.639
Food Chain Multiplier - Trophic Level 2	1
Food Chain Multiplier - Trophic Level 3	13.23
Food Chain Multiplier - Trophic Level 4	23.28

Sediment Concentration (ug/kg)	Maximum			Mean			Surface Water Concentration (ug/L)			
	EE01	EE02	EE03	EE04	EE05	EE06	EE07	EE08	EE09	EE10
EW01	13060	13950	25600	50450	1	0.3	0.3	0.3	0.3	0.3
EW02	31830	1200	29600	5315	0.3	0.3	0.3	0.3	0.3	0.3
EW03	945	565	22150	2000	0.3	0.3	0.3	0.3	0.3	0.3
EW04	675		10780		0.3	0.3	0.3	0.3	0.3	0.3
EW05	42000		5675		0.3	0.3	0.3	0.3	0.3	0.3
EW06	2090		31450		0.3	0.3	0.3	0.3	0.3	0.3
EW07	367		5280		0.3	0.3	0.3	0.3	0.3	0.3
EW08	240.5		5715		0.3	0.3	0.3	0.3	0.3	0.3
EW09	321		29115		0.3	0.3	0.3	0.3	0.3	0.3
EW10	442.3		3080		0.3	0.3	0.3	0.3	0.3	0.3

Invertebrates	BCF _{lipid}			1995262.315		
	%Lipid	BCF	BAF _{lipid}	BAF	BAF	BAF
Aquatic Invertebrates	4	79810.5	1995262.3	79810.5	79810.5	79810.5
Emergent Insects	3	69834.2	1995262.3	69834.2	69834.2	69834.2
Trophic Level 2	%Lipid					
Forage Fish	4	79810.49	1995262	79810.49	79810.49	79810.49
Small Mammals	2	39905.25	1995262	39905.25	39905.25	39905.25
Trophic Level 3	%Lipid					
Amphibians	3	59857.87	26393330	26393330	791799.9	791799.9
Reptiles	6	119715.7	26393330	26393330	1583600	1583600
Small Birds	2	39905.25	26393330	26393330	527866.6	527866.6

Plants	%Lipids		%Moisture	
	Root	Stem	Foliage	Fruit
Root	3	1	82	82
Stem	1	1	82	82
Foliage	1	1	83	83
Fruit	5	5	75	75

K _{ow}	1593.473
TSCF	0.000181
K _{oc}	531.7044
K _{ow}	531.7344
K _{ow}	2655.172

Total PCBs

	Sediment ug/Kg	Water ug/L	Plants				Invertebrates			Trophic Level 2			Trophic Level 3		
			Roots ug/Kg	Foliage ug/Kg	Fruit ug/Kg	Aquatic ug/Kg	Emergent ug/Kg	Forage Fish ug/Kg	Small Mammals ug/Kg	Amphibians ug/Kg	Reptiles ug/Kg	Small Birds ug/Kg			
EE01	13000	1	9082.798	0.54889361	2.74085512	454919.808	398054.832	79810.4926	39905.2463	791799.8971	1583599.79	527866.598			
EE02	31830	0.5	9082.798	0.54889361	2.74085512	454919.808	398054.832	39905.2463	19952.62315	395899.9485	791799.897	263933.299			
EE03	945	0.5	1593.68644	0.09631	0.48091608	79821.1663	69843.5205	39905.2463	19952.62315	395899.9485	791799.897	263933.299			
EE04	675	0.5	2338.99779	0.14135082	0.7058237	117150.731	102506.89	39905.2463	19952.62315	395899.9485	791799.897	263933.299			
EE05	42000	0.5	9082.798	0.54889361	2.74085512	454919.808	398054.832	39905.2463	19952.62315	395899.9485	791799.897	263933.299			
EE06	2090	0.5	2482.39242	0.15001648	0.74909494	124332.775	108791.178	39905.2463	19952.62315	395899.9485	791799.897	263933.299			
EE07	367	0.5	2596.43193	0.15690814	0.78350788	130044.543	113788.975	39905.2463	19952.62315	395899.9485	791799.897	263933.299			
EE08	240.5	0.5	1571.9678	0.0949975	0.4743622	78733.3694	68891.6982	39905.2463	19952.62315	395899.9485	791799.897	263933.299			
EE09	321	0.5	411.844279	0.02488866	0.12427949	20627.5776	18049.1304	39905.2463	19952.62315	395899.9485	791799.897	263933.299			
EE10	442.5	0.5	5419.48771	0.32751165	1.63540251	271439.738	237509.771	39905.2463	19952.62315	395899.9485	791799.897	263933.299			
EW01	33950	0.5	9082.798	0.54889361	2.74085512	454919.808	398054.832	39905.2463	19952.62315	395899.9485	791799.897	263933.299			
EW02	1200	0.5	8433.78988	0.50967262	2.54500829	422413.674	369611.965	39905.2463	19952.62315	395899.9485	791799.897	263933.299			
EW03	565	0.5	9082.798	0.54889361	2.74085512	454919.808	398054.832	39905.2463	19952.62315	395899.9485	791799.897	263933.299			

Total PCBs

Invertebrates	BAF	Trophic Level 2	BAF	Trophic Level 3	BAF
Aquatic Invertebrates	79810.4926	Forage Fish	79810.4926	Amphibians	791799.8971
Emergent Insects	69834.181	Small Mammals	39905.2463	Reptiles	1583599.794
		Solubility		Small Birds	527866.598
		5.7			

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Aquatic Invertebrates	Emergent Insects
EB01	13000	25600	5.7	454919.8078	398054.8318
EB02	31830	29600	5.7	454919.8078	398054.8318
EB03	945	22150	1.000133738	79821.16632	69843.52053
EB04	675	10780	1.467861271	117150.7311	102506.8897
EB05	42000	5675	5.7	454919.8078	398054.8318
EB06	2090	31450	1.557849992	124332.7752	108791.1783
EB07	367	5280	1.62941662	130044.5431	113788.9752
EB08	240.5	5715	0.98650399	78733.36936	68891.69819
EB09	321	29115	0.258456964	20627.57759	18049.13039
EB10	442.5	3050	3.401053281	271439.7377	237509.7705
EW01	33950	50450	5.7	454919.8078	398054.8318
EW02	1200	5315	5.29270852	422413.6742	369611.9649
EW03	565	2000	5.7	454919.8078	398054.8318

Water	ug/L	Forage Fish	Small Mammals	Amphibians	Reptiles	Small Birds
EB01	1	79810.4926	39905.2463	791799.8971	1583599.794	527866.598
EB02	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EB03	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EB04	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EB05	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EB06	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EB07	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EB08	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EB09	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EB10	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EW01	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EW02	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299
EW03	0.5	39905.2463	19952.62315	395899.9485	791799.8971	263933.299

Total PCBs

Krw 1593.47333
 TSCF 0.0001811
 KStXy 531.704444
 Klw 531.734444
 Kcw 2655.17222

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EE01	13000	25600	5.7	9082.798	0.00103227	0.54886265	0.54889361	2.74085512
EE02	31830	29600	5.7	9082.798	0.00103227	0.54886265	0.54889361	2.74085512
EE03	945	22150	1.000133738	1593.68644	0.000181124	0.09630457	0.09631	0.48091608
EE04	675	10780	1.467861271	2338.99779	0.00026583	0.14134285	0.14135082	0.7058237
EE05	42000	5675	5.7	9082.798	0.00103227	0.54886265	0.54889361	2.74085512
EE06	2090	31450	1.557849992	2482.39242	0.000282127	0.15000801	0.15001648	0.74909494
EE07	367	5280	1.62941662	2596.43193	0.000295087	0.15689928	0.15690814	0.78350788
EE08	240.5	5715	0.98650399	1571.9678	0.000178656	0.09499214	0.0949975	0.4743622
EE09	321	29115	0.258456964	411.844279	4.68066E-05	0.02488726	0.02488866	0.12427949
EE10	442.5	3050	3.401053281	5419.48771	0.000615931	0.32749318	0.32751165	1.63540251
EW01	33950	50450	5.7	9082.798	0.00103227	0.54886265	0.54889361	2.74085512
EW02	1200	5315	5.29270852	8433.78988	0.00095851	0.50964386	0.50967262	2.54500829
EW03	565	2000	5.7	9082.798	0.00103227	0.54886265	0.54889361	2.74085512

Section C

Hazard Quotient Concentrations

**TABLE I-23
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Antimony**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	4.859	0.000	30.000
EE02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	10.476	0.000	30.000
EE03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	4.487	0.000	30.000
EE04	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.994	0.000	30.000
EE05	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.850	0.000	30.000
EE06	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.011	0.000	30.000
EE07	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.024	0.000	30.000
EE08	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.999	0.000	30.000
EE09	11.250	3.000	600.000	600.000	0.128	0.128	0.128	0.128	0.000	2.995	0.000	37.500
EE10	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.014	0.000	30.000
EW01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.002	0.000	30.000
EW02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.997	0.000	30.000
EW03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.993	0.000	30.000
Unued	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unued	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	12.847	13.40	0.959
EE02	50	12.865	13.40	0.960
EE03	50	12.846	13.40	0.959
EE04	50	12.841	13.40	0.958
EE05	50	12.844	13.40	0.958
EE06	50	12.841	13.40	0.958
EE07	50	12.841	13.40	0.958
EE08	50	12.841	13.40	0.958
EE09	50	16.032	13.40	1.196
EE10	50	12.841	13.40	0.958
EW01	50	12.841	13.40	0.958
EW02	50	12.841	13.40	0.958
EW03	50	12.841	13.40	0.958
Unued	50	0.000	13.40	0.000
Unued	50	0.000	13.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-24
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Antimony**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	4.859	0.000	30.000
EE02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	10.476	0.000	30.000
EE03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	4.487	0.000	30.000
EE04	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.994	0.000	30.000
EE05	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.850	0.000	30.000
EE06	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.011	0.000	30.000
EE07	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.024	0.000	30.000
EE08	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.999	0.000	30.000
EE09	11.250	3.000	600.000	600.000	0.128	0.128	0.128	0.128	0.000	2.995	0.000	37.500
EE10	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.014	0.000	30.000
EW01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.002	0.000	30.000
EW02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.997	0.000	30.000
EW03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.993	0.000	30.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	12.847	133.80	0.096
EE02	50	12.865	133.80	0.096
EE03	50	12.846	133.80	0.096
EE04	50	12.841	133.80	0.096
EE05	50	12.844	133.80	0.096
EE06	50	12.841	133.80	0.096
EE07	50	12.841	133.80	0.096
EE08	50	12.841	133.80	0.096
EE09	50	16.032	133.80	0.120
EE10	50	12.841	133.80	0.096
EW01	50	12.841	133.80	0.096
EW02	50	12.841	133.80	0.096
EW03	50	12.841	133.80	0.096
Unused	50	0.000	133.80	0.000
Unused	50	0.000	133.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-25
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Antimony**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	6,018	0.000	30,000
EE02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	14,910	0.000	30,000
EE03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	5,964	0.000	30,000
EE04	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,000	0.000	30,000
EE05	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	5,694	0.000	30,000
EE06	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,014	0.000	30,000
EE07	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,030	0.000	30,000
EE08	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,002	0.000	30,000
EE09	13,500	3,000	720,000	720,000	0.153	0.153	0.153	0.153	0.000	2,997	0.000	45,000
EE10	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,024	0.000	30,000
EW01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,003	0.000	30,000
EW02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,000	0.000	30,000
EW03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2,993	0.000	30,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

HAZARD QUOTIENTS				
LOCATION	BASED ON UCL (or max) CONCENTRATIONS		TRV (NOAEL)	HAZARD QUOTIENT
	Area Use Factor	Applied Daily Dose		
EE01	50	12,851	13,40	0.959
EE02	50	12,879	13,40	0.961
EE03	50	12,851	13,40	0.959
EE04	50	12,841	13,40	0.958
EE05	50	12,850	13,40	0.959
EE06	50	12,841	13,40	0.958
EE07	50	12,841	13,40	0.958
EE08	50	12,841	13,40	0.958
EE09	50	19,224	13,40	1.435
EE10	50	12,841	13,40	0.958
EW01	50	12,841	13,40	0.958
EW02	50	12,841	13,40	0.958
EW03	50	12,841	13,40	0.958
Unused	50	0.000	13,40	0.000
Unused	50	0.000	13,40	0.000

**TABLE I-26
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Antimony**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	6.018	0.000	30.000
EE02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	14.910	0.000	30.000
EE03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	5.964	0.000	30.000
EE04	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.000	0.000	30.000
EE05	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	5.694	0.000	30.000
EE06	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.014	0.000	30.000
EE07	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.030	0.000	30.000
EE08	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.002	0.000	30.000
EE09	13.500	3.000	720.000	720.000	0.153	0.153	0.153	0.153	0.000	2.997	0.000	45.000
EE10	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.024	0.000	30.000
EW01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.003	0.000	30.000
EW02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.000	0.000	30.000
EW03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.993	0.000	30.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	12.851	133.80	0.096
EE02	50	12.879	133.80	0.096
EE03	50	12.851	133.80	0.096
EE04	50	12.841	133.80	0.096
EE05	50	12.850	133.80	0.096
EE06	50	12.841	133.80	0.096
EE07	50	12.841	133.80	0.096
EE08	50	12.841	133.80	0.096
EE09	50	19.224	133.80	0.144
EE10	50	12.841	133.80	0.096
EW01	50	12.841	133.80	0.096
EW02	50	12.841	133.80	0.096
EW03	50	12.841	133.80	0.096
Unused	50	0.000	133.80	0.000
Unused	50	0.000	133.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-27
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Green Heron exposed to Antimony

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	0.52	33.11	66.21	0.01	0.00	0.00	0.02	0.00	0.12	0.00	0.01
EE02	0.00	0.52	33.06	66.12	0.01	0.00	0.00	0.02	0.00	0.26	0.00	0.01
EE03	0.00	0.52	33.11	66.22	0.01	0.00	0.00	0.02	0.00	0.11	0.00	0.01
EE04	0.00	0.52	33.12	66.24	0.01	0.00	0.00	0.02	0.00	0.07	0.00	0.01
EE05	0.00	0.52	33.11	66.23	0.01	0.00	0.00	0.02	0.00	0.09	0.00	0.01
EE06	0.00	0.52	33.12	66.24	0.01	0.00	0.00	0.02	0.00	0.07	0.00	0.01
EE07	0.00	0.52	33.12	66.24	0.01	0.00	0.00	0.02	0.00	0.07	0.00	0.01
EE08	0.00	0.52	33.12	66.24	0.01	0.00	0.00	0.02	0.00	0.07	0.00	0.01
EE09	0.00	0.41	33.16	66.32	0.01	0.00	0.00	0.02	0.00	0.06	0.00	0.01
EE10	0.00	0.52	33.12	66.24	0.01	0.00	0.00	0.02	0.00	0.07	0.00	0.01
EW01	0.00	0.52	33.12	66.24	0.01	0.00	0.00	0.02	0.00	0.07	0.00	0.01
EW02	0.00	0.52	33.12	66.24	0.01	0.00	0.00	0.02	0.00	0.07	0.00	0.01
EW03	0.00	0.52	33.12	66.24	0.01	0.00	0.00	0.02	0.00	0.07	0.00	0.01
Average	0.00	0.51	33.12	66.23	0.01	0.00	0.00	0.02	0.00	0.09	0.00	0.01

**TABLE I-28
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Arsenic**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.581	0.000	2.500
EE02	0.799	0.520	0.149	0.149	0.004	0.004	0.004	0.004	0.000	3.768	0.000	2.400
EE03	1.215	0.520	0.226	0.226	0.007	0.007	0.007	0.007	0.000	1.103	0.000	3.650
EE04	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	1.104	0.000	3.750
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.538	0.000	5.000
EE06	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	2.447	0.000	3.750
EE07	0.450	0.720	0.084	0.084	0.002	0.002	0.002	0.002	0.000	0.482	0.000	1.350
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.235	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.663	0.000	2.500
EE10	38.711	0.720	7.208	7.208	0.209	0.209	0.209	0.209	0.000	2.016	0.000	116.250
EW01	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.461	0.000	2.050
EW02	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.488	0.000	2.050
EW03	0.716	0.500	0.133	0.133	0.004	0.004	0.004	0.004	0.000	2.914	0.000	2.150
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.021	4.70	0.004
EE02	50	0.028	4.70	0.006
EE03	50	0.021	4.70	0.005
EE04	50	0.024	4.70	0.005
EE05	50	0.031	4.70	0.007
EE06	50	0.028	4.70	0.006
EE07	50	0.020	4.70	0.004
EE08	50	0.024	4.70	0.005
EE09	50	0.022	4.70	0.005
EE10	50	0.229	4.70	0.049
EW01	50	0.019	4.70	0.004
EW02	50	0.019	4.70	0.004
EW03	50	0.024	4.70	0.005
Unused	50	0.000	4.70	0.000
Unused	50	0.000	4.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-29
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Arsenic**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.581	0.000	2.500
EE02	0.799	0.520	0.149	0.149	0.004	0.004	0.004	0.004	0.000	3.768	0.000	2.400
EE03	1.215	0.520	0.226	0.226	0.007	0.007	0.007	0.007	0.000	1.103	0.000	3.650
EE04	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	1.104	0.000	3.750
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.558	0.000	5.000
EE06	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	2.447	0.000	3.750
EE07	0.450	0.720	0.084	0.084	0.002	0.002	0.002	0.002	0.000	0.482	0.000	1.350
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.235	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.663	0.000	2.500
EE10	38.711	0.720	7.208	7.208	0.209	0.209	0.209	0.209	0.000	2.016	0.000	116.250
EW01	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.461	0.000	2.050
EW02	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.488	0.000	2.050
EW03	0.716	0.500	0.133	0.133	0.004	0.004	0.004	0.004	0.000	2.914	0.000	2.150
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.021	4.70	0.004
EE02	50	0.028	4.70	0.006
EE03	50	0.021	4.70	0.005
EE04	50	0.024	4.70	0.005
EE05	50	0.031	4.70	0.007
EE06	50	0.028	4.70	0.006
EE07	50	0.020	4.70	0.004
EE08	50	0.024	4.70	0.005
EE09	50	0.022	4.70	0.005
EE10	50	0.229	4.70	0.049
EW01	50	0.019	4.70	0.004
EW02	50	0.019	4.70	0.004
EW03	50	0.024	4.70	0.005
Unused	50	0.000	4.70	0.000
Unused	50	0.000	4.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-30
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Arsenic

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	2.000	0.000	2.500
EE02	1.232	0.520	0.229	0.229	0.007	0.007	0.007	0.007	0.000	6.612	0.000	3.700
EE03	1.665	0.520	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.260	0.000	5.000
EE04	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.328	0.000	5.000
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	3.010	0.000	5.000
EE06	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.684	0.000	5.000
EE07	0.566	0.720	0.105	0.105	0.003	0.003	0.003	0.003	0.000	0.682	0.000	1.700
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.296	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.891	0.000	2.500
EE10	76.590	0.720	14.260	14.260	0.414	0.414	0.414	0.414	0.000	2.184	0.000	230.000
EW01	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.722	0.000	2.500
EW02	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.500	0.000	2.500
EW03	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	5.104	0.000	2.500
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.022	4.70	0.005
EE02	50	0.039	4.70	0.008
EE03	50	0.021	4.70	0.005
EE04	50	0.024	4.70	0.005
EE05	50	0.031	4.70	0.007
EE06	50	0.028	4.70	0.006
EE07	50	0.020	4.70	0.004
EE08	50	0.024	4.70	0.005
EE09	50	0.022	4.70	0.005
EE10	50	0.229	4.70	0.049
EW01	50	0.019	4.70	0.004
EW02	50	0.019	4.70	0.004
EW03	50	0.024	4.70	0.005
Unused	50	0.000	4.70	0.000
Unused	50	0.000	4.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-31
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Arsenic**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	2.000	0.000	2.500
EE02	1.232	0.520	0.229	0.229	0.007	0.007	0.007	0.007	0.000	6.612	0.000	3.700
EE03	1.665	0.520	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.260	0.000	5.000
EE04	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.328	0.000	5.000
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	3.010	0.000	5.000
EE06	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.684	0.000	5.000
EE07	0.566	0.720	0.105	0.105	0.003	0.003	0.003	0.003	0.000	0.682	0.000	1.700
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.296	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.891	0.000	2.500
EE10	76.590	0.720	14.260	14.260	0.414	0.414	0.414	0.414	0.000	2.184	0.000	230.000
EW01	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.722	0.000	2.500
EW02	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.500	0.000	2.500
EW03	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	5.104	0.000	2.500
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	50	0.022	4.70	0.005	
EE02	50	0.039	4.70	0.008	
EE03	50	0.021	4.70	0.005	
EE04	50	0.024	4.70	0.005	
EE05	50	0.031	4.70	0.007	
EE06	50	0.028	4.70	0.006	
EE07	50	0.020	4.70	0.004	
EE08	50	0.024	4.70	0.005	
EE09	50	0.022	4.70	0.005	
EE10	50	0.229	4.70	0.049	
EW01	50	0.019	4.70	0.004	
EW02	50	0.019	4.70	0.004	
EW03	50	0.024	4.70	0.005	
Unused	50	0.000	4.70	0.000	
Unused	50	0.000	4.70	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-32
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Green Heron exposed to Arsenic

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	54.97	6.55	13.11	0.29	0.00	0.10	0.48	0.00	23.87	0.00	0.64
EE02	0.00	41.59	4.76	9.52	0.21	0.00	0.07	0.35	0.00	43.05	0.00	0.47
EE03	0.00	53.62	9.33	18.67	0.41	0.00	0.14	0.68	0.00	16.25	0.00	0.91
EE04	0.00	57.52	8.63	17.25	0.38	0.00	0.13	0.63	0.00	14.63	0.00	0.84
EE05	0.00	44.74	8.95	17.90	0.39	0.00	0.13	0.65	0.00	26.37	0.00	0.88
EE06	0.00	48.83	7.32	14.65	0.32	0.00	0.11	0.53	0.00	27.52	0.00	0.72
EE07	0.00	80.27	3.73	7.47	0.16	0.00	0.05	0.27	0.00	7.68	0.00	0.37
EE08	0.00	65.66	5.65	11.31	0.25	0.00	0.08	0.41	0.00	16.08	0.00	0.55
EE09	0.00	70.95	6.11	12.22	0.27	0.00	0.09	0.44	0.00	9.33	0.00	0.60
EE10	0.00	6.98	27.95	55.89	1.22	0.00	0.41	2.03	0.00	2.79	0.00	2.74
EW01	0.00	57.28	5.82	11.65	0.25	0.00	0.08	0.42	0.00	23.91	0.00	0.57
EW02	0.00	57.03	5.80	11.60	0.25	0.00	0.08	0.42	0.00	24.25	0.00	0.57
EW03	0.00	45.94	4.90	9.80	0.21	0.00	0.07	0.36	0.00	38.24	0.00	0.48
Average	0.00	52.72	8.12	16.23	0.35	0.00	0.12	0.59	0.00	21.08	0.00	0.79

TABLE I-33
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Cadmium

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	1.170	2.200	1.350	1.350	0.043	0.043	0.043	0.043	0.000	1.722	0.000	1.390
EE02	1.394	2.200	1.607	1.607	0.051	0.051	0.051	0.051	0.000	0.877	0.000	1.655
EE03	1.402	2.200	1.617	1.617	0.051	0.051	0.051	0.051	0.000	3.385	0.000	1.665
EE04	0.278	6.900	0.320	0.320	0.010	0.010	0.010	0.010	0.000	2.685	0.000	0.330
EE05	6.989	6.900	8.059	8.059	0.256	0.256	0.256	0.256	0.000	124.630	0.000	8.300
EE06	0.741	6.900	0.854	0.854	0.027	0.027	0.027	0.027	0.000	45.100	0.000	0.880
EE07	0.800	1.700	0.922	0.922	0.029	0.029	0.029	0.029	0.000	4.038	0.000	0.950
EE08	0.720	3.500	0.830	0.830	0.026	0.026	0.026	0.026	0.000	13.581	0.000	0.855
EE09	0.741	4.600	0.854	0.854	0.027	0.027	0.027	0.027	0.000	22.333	0.000	0.880
EE10	0.770	4.600	0.888	0.888	0.028	0.028	0.028	0.028	0.000	11.133	0.000	0.915
EW01	0.265	2.630	0.306	0.306	0.010	0.010	0.010	0.010	0.000	15.843	0.000	0.315
EW02	1.162	2.630	1.340	1.340	0.043	0.043	0.043	0.043	0.000	2.949	0.000	1.380
EW03	0.552	2.630	0.636	0.636	0.020	0.020	0.020	0.020	0.000	1.049	0.000	0.655
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.092	0.78	0.118
EE02	50	0.096	0.78	0.124
EE03	50	0.105	0.78	0.134
EE04	50	0.170	0.78	0.218
EE05	50	0.772	0.78	0.990
EE06	50	0.319	0.78	0.410
EE07	50	0.076	0.78	0.098
EE08	50	0.144	0.78	0.184
EE09	50	0.196	0.78	0.252
EE10	50	0.162	0.78	0.208
EW01	50	0.117	0.78	0.150
EW02	50	0.105	0.78	0.135
EW03	50	0.079	0.78	0.102
Unused	50	0.000	0.78	0.000
Unused	50	0.000	0.78	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-34
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Cadmium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	1.170	2.200	1.350	1.350	0.043	0.043	0.043	0.043	0.000	1.722	0.000	1.390
EE02	1.394	2.200	1.607	1.607	0.051	0.051	0.051	0.051	0.000	0.877	0.000	1.655
EE03	1.402	2.200	1.617	1.617	0.051	0.051	0.051	0.051	0.000	3.385	0.000	1.665
EE04	0.278	6.900	0.320	0.320	0.010	0.010	0.010	0.010	0.000	2.685	0.000	0.330
EE05	6.989	6.900	8.059	8.059	0.256	0.256	0.256	0.256	0.000	124.630	0.000	8.300
EE06	0.741	6.900	0.854	0.854	0.027	0.027	0.027	0.027	0.000	45.100	0.000	0.880
EE07	0.800	1.700	0.922	0.922	0.029	0.029	0.029	0.029	0.000	4.038	0.000	0.950
EE08	0.720	3.500	0.830	0.830	0.026	0.026	0.026	0.026	0.000	13.581	0.000	0.855
EE09	0.741	4.600	0.854	0.854	0.027	0.027	0.027	0.027	0.000	22.333	0.000	0.880
EE10	0.770	4.600	0.888	0.888	0.028	0.028	0.028	0.028	0.000	11.133	0.000	0.915
EW01	0.265	2.630	0.306	0.306	0.010	0.010	0.010	0.010	0.000	15.843	0.000	0.315
EW02	1.162	2.630	1.340	1.340	0.043	0.043	0.043	0.043	0.000	2.949	0.000	1.380
EW03	0.552	2.630	0.636	0.636	0.020	0.020	0.020	0.020	0.000	1.049	0.000	0.655
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.092	7.80	0.012
EE02	50	0.096	7.80	0.012
EE03	50	0.105	7.80	0.013
EE04	50	0.170	7.80	0.022
EE05	50	0.772	7.80	0.099
EE06	50	0.319	7.80	0.041
EE07	50	0.076	7.80	0.010
EE08	50	0.144	7.80	0.018
EE09	50	0.196	7.80	0.025
EE10	50	0.162	7.80	0.021
EW01	50	0.117	7.80	0.015
EW02	50	0.105	7.80	0.013
EW03	50	0.079	7.80	0.010
Unused	50	0.000	7.80	0.000
Unused	50	0.000	7.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-35
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Cadmium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.743	0.000	2.500
EE02	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.260	0.000	2.500
EE03	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	4.620	0.000	2.500
EE04	0.303	8.000	0.350	0.350	0.011	0.011	0.011	0.011	0.000	2.880	0.000	0.360
EE05	8.252	8.000	9.516	9.516	0.302	0.302	0.302	0.302	0.000	160.680	0.000	9.800
EE06	0.926	8.000	1.068	1.068	0.034	0.034	0.034	0.034	0.000	69.320	0.000	1.100
EE07	1.010	2.300	1.165	1.165	0.037	0.037	0.037	0.037	0.000	5.751	0.000	1.200
EE08	0.842	3.500	0.971	0.971	0.031	0.031	0.031	0.031	0.000	18.468	0.000	1.000
EE09	0.842	4.800	0.971	0.971	0.031	0.031	0.031	0.031	0.000	22.796	0.000	1.000
EE10	0.926	4.800	1.068	1.068	0.034	0.034	0.034	0.034	0.000	20.670	0.000	1.100
EW01	0.303	3.300	0.350	0.350	0.011	0.011	0.011	0.011	0.000	27.846	0.000	0.360
EW02	2.021	3.300	2.330	2.330	0.074	0.074	0.074	0.074	0.000	3.198	0.000	2.400
EW03	0.842	3.400	0.971	0.971	0.031	0.031	0.031	0.031	0.000	1.848	0.000	1.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.137	0.78	0.176
EE02	50	0.136	0.78	0.174
EE03	50	0.147	0.78	0.188
EE04	50	0.196	0.78	0.251
EE05	50	0.951	0.78	1.220
EE06	50	0.427	0.78	0.547
EE07	50	0.102	0.78	0.130
EE08	50	0.163	0.78	0.209
EE09	50	0.206	0.78	0.264
EE10	50	0.202	0.78	0.258
EW01	50	0.171	0.78	0.219
EW02	50	0.148	0.78	0.190
EW03	50	0.108	0.78	0.139
Unused	50	0.000	0.78	0.000
Unused	50	0.000	0.78	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-36
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Cadmium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.743	0.000	2.500
EE02	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.260	0.000	2.500
EE03	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	4.620	0.000	2.500
EE04	0.303	8.000	0.350	0.350	0.011	0.011	0.011	0.011	0.000	2.880	0.000	0.360
EE05	8.252	8.000	9.516	9.516	0.302	0.302	0.302	0.302	0.000	160.680	0.000	9.800
EE06	0.926	8.000	1.068	1.068	0.034	0.034	0.034	0.034	0.000	69.520	0.000	1.100
EE07	1.010	2.300	1.165	1.165	0.037	0.037	0.037	0.037	0.000	5.751	0.000	1.200
EE08	0.842	3.500	0.971	0.971	0.031	0.031	0.031	0.031	0.000	18.468	0.000	1.000
EE09	0.842	4.800	0.971	0.971	0.031	0.031	0.031	0.031	0.000	22.796	0.000	1.000
EE10	0.926	4.800	1.068	1.068	0.034	0.034	0.034	0.034	0.000	20.670	0.000	1.100
EW01	0.303	3.300	0.350	0.350	0.011	0.011	0.011	0.011	0.000	27.846	0.000	0.360
EW02	2.021	3.300	2.330	2.330	0.074	0.074	0.074	0.074	0.000	3.198	0.000	2.400
EW03	0.842	3.400	0.971	0.971	0.031	0.031	0.031	0.031	0.000	1.848	0.000	1.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.137	7.80	0.018
EE02	50	0.136	7.80	0.017
EE03	50	0.147	7.80	0.019
EE04	50	0.196	7.80	0.025
EE05	50	0.951	7.80	0.122
EE06	50	0.427	7.80	0.055
EE07	50	0.102	7.80	0.013
EE08	50	0.163	7.80	0.021
EE09	50	0.206	7.80	0.026
EE10	50	0.202	7.80	0.026
EW01	50	0.171	7.80	0.022
EW02	50	0.148	7.80	0.019
EW03	50	0.108	7.80	0.014
Unused	50	0.000	7.80	0.000
Unused	50	0.000	7.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-37
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Green Heron exposed to Cadmium

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	53.06	13.02	26.04	0.62	0.00	0.21	1.03	0.00	5.93	0.00	0.08
EE02	0.00	50.58	14.78	29.56	0.70	0.00	0.23	1.17	0.00	2.88	0.00	0.09
EE03	0.00	46.61	13.70	27.40	0.65	0.00	0.22	1.09	0.00	10.25	0.00	0.09
EE04	0.00	89.76	1.67	3.33	0.08	0.00	0.03	0.13	0.00	4.99	0.00	0.01
EE05	0.00	19.80	9.25	18.50	0.44	0.00	0.15	0.73	0.00	51.08	0.00	0.06
EE06	0.00	47.85	2.37	4.74	0.11	0.00	0.04	0.19	0.00	44.68	0.00	0.01
EE07	0.00	49.44	10.73	21.46	0.51	0.00	0.17	0.85	0.00	16.77	0.00	0.07
EE08	0.00	53.96	5.12	10.24	0.24	0.00	0.08	0.41	0.00	29.91	0.00	0.03
EE09	0.00	51.88	3.85	7.71	0.18	0.00	0.06	0.31	0.00	35.98	0.00	0.02
EE10	0.00	62.93	4.86	9.72	0.23	0.00	0.08	0.39	0.00	21.76	0.00	0.03
EW01	0.00	49.82	2.32	4.64	0.11	0.00	0.04	0.18	0.00	42.88	0.00	0.01
EW02	0.00	55.50	11.31	22.62	0.54	0.00	0.18	0.90	0.00	8.89	0.00	0.07
EW03	0.00	73.44	7.10	14.21	0.34	0.00	0.11	0.56	0.00	4.19	0.00	0.04
Average	0.00	54.20	7.70	15.40	0.37	0.00	0.12	0.61	0.00	21.55	0.00	0.05

**TABLE I-38
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Chromium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	20,000	2,730	10,000	10,000	1,000	1,000	1,000	1,000	0,000	12,068	0,000	5,000
EE02	41,000	2,730	20,500	20,500	2,050	2,050	2,050	2,050	0,000	42,602	0,000	10,250
EE03	27,200	2,730	13,600	13,600	1,360	1,360	1,360	1,360	0,000	25,580	0,000	6,800
EE04	22,600	2,870	11,300	11,300	1,130	1,130	1,130	1,130	0,000	58,314	0,000	5,650
EE05	54,000	2,870	27,000	27,000	2,700	2,700	2,700	2,700	0,000	537,640	0,000	13,500
EE06	20,000	2,870	10,000	10,000	1,000	1,000	1,000	1,000	0,000	345,050	0,000	5,000
EE07	22,200	3,800	11,100	11,100	1,110	1,110	1,110	1,110	0,000	52,200	0,000	5,550
EE08	126,000	4,900	63,000	63,000	6,300	6,300	6,300	6,300	0,000	88,589	0,000	31,500
EE09	90,000	3,670	45,000	45,000	4,500	4,500	4,500	4,500	0,000	186,945	0,000	22,500
EE10	54,000	3,670	27,000	27,000	2,700	2,700	2,700	2,700	0,000	109,254	0,000	13,500
EW01	20,000	1,560	10,000	10,000	1,000	1,000	1,000	1,000	0,000	158,210	0,000	5,000
EW02	23,200	1,560	11,600	11,600	1,160	1,160	1,160	1,160	0,000	54,100	0,000	5,800
EW03	20,000	1,357	10,000	10,000	1,000	1,000	1,000	1,000	0,000	29,494	0,000	5,000
Unused	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Unused	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	50	0.405	0.27	1.499	
EE02	50	0.823	0.27	3.046	
EE03	50	0.538	0.27	2.065	
EE04	50	0.594	0.27	2.202	
EE05	50	2.591	0.27	9.597	
EE06	50	1.461	0.27	5.413	
EE07	50	0.589	0.27	2.181	
EE08	50	2.316	0.27	8.580	
EE09	50	2.050	0.27	7.592	
EE10	50	1.253	0.27	4.641	
EW01	50	0.841	0.27	3.116	
EW02	50	0.561	0.27	2.077	
EW03	50	0.429	0.27	1.590	
Unused	50	0.000	0.27	0.000	
Unused	50	0.000	0.27	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-39
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Chromium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	20,000	2,730	10,000	10,000	1,000	1,000	1,000	1,000	0.000	12,068	0.000	5,000
EE02	41,000	2,730	20,500	20,500	2,050	2,050	2,050	2,050	0.000	42,602	0.000	10,250
EE03	27,200	2,730	13,600	13,600	1,360	1,360	1,360	1,360	0.000	25,580	0.000	6,800
EE04	22,600	2,870	11,300	11,300	1,130	1,130	1,130	1,130	0.000	58,514	0.000	5,650
EE05	54,000	2,870	27,000	27,000	2,700	2,700	2,700	2,700	0.000	537,640	0.000	13,500
EE06	20,000	2,870	10,000	10,000	1,000	1,000	1,000	1,000	0.000	345,050	0.000	5,000
EE07	22,200	3,800	11,100	11,100	1,110	1,110	1,110	1,110	0.000	52,200	0.000	5,550
EE08	126,000	4,900	63,000	63,000	6,300	6,300	6,300	6,300	0.000	88,589	0.000	31,500
EE09	90,000	3,670	45,000	45,000	4,500	4,500	4,500	4,500	0.000	186,945	0.000	22,500
EE10	54,000	3,670	27,000	27,000	2,700	2,700	2,700	2,700	0.000	109,254	0.000	13,500
EW01	20,000	1,560	10,000	10,000	1,000	1,000	1,000	1,000	0.000	158,210	0.000	5,000
EW02	23,200	1,560	11,600	11,600	1,160	1,160	1,160	1,160	0.000	54,100	0.000	5,800
EW03	20,000	1,357	10,000	10,000	1,000	1,000	1,000	1,000	0.000	29,494	0.000	5,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	50	0.405	2.70	0.150	
EE02	50	0.823	2.70	0.305	
EE03	50	0.558	2.70	0.206	
EE04	50	0.594	2.70	0.220	
EE05	50	2.591	2.70	0.960	
EE06	50	1.461	2.70	0.541	
EE07	50	0.389	2.70	0.218	
EE08	50	2.316	2.70	0.858	
EE09	50	2.050	2.70	0.759	
EE10	50	1.253	2.70	0.464	
EW01	50	0.841	2.70	0.312	
EW02	50	0.561	2.70	0.208	
EW03	50	0.429	2.70	0.159	
Unused	50	0.000	2.70	0.000	
Unused	50	0.000	2.70	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

TABLE I-40
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Chromium

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	20,000	3,100	10,000	10,000	1,000	1,000	1,000	1,000	0.000	16,500	0.000	5,000
EE02	48,000	3,100	24,000	24,000	2,400	2,400	2,400	2,400	0.000	64,372	0.000	12,000
EE03	34,400	3,100	17,200	17,200	1,720	1,720	1,720	1,720	0.000	25,704	0.000	8,600
EE04	25,200	3,600	12,600	12,600	1,260	1,260	1,260	1,260	0.000	86,400	0.000	6,300
EE05	88,000	3,600	44,000	44,000	4,400	4,400	4,400	4,400	0.000	584,220	0.000	22,000
EE06	20,000	3,600	10,000	10,000	1,000	1,000	1,000	1,000	0.000	563,200	0.000	5,000
EE07	24,400	4,100	12,200	12,200	1,220	1,220	1,220	1,220	0.000	89,460	0.000	6,100
EE08	168,000	4,900	84,000	84,000	8,400	8,400	8,400	8,400	0.000	146,610	0.000	42,000
EE09	132,000	4,000	66,000	66,000	6,600	6,600	6,600	6,600	0.000	238,620	0.000	33,000
EE10	64,000	4,000	32,000	32,000	3,200	3,200	3,200	3,200	0.000	202,800	0.000	16,000
EW01	20,000	2,700	10,000	10,000	1,000	1,000	1,000	1,000	0.000	272,580	0.000	5,000
EW02	26,400	2,700	13,200	13,200	1,320	1,320	1,320	1,320	0.000	70,725	0.000	6,600
EW03	20,000	2,300	10,000	10,000	1,000	1,000	1,000	1,000	0.000	33,292	0.000	5,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
LOCATION	Area		TRV (NOAEL)	HAZARD QUOTIENT
	Use Factor	Applied Daily Dose		
EE01	50	0.427	0.27	1.581
EE02	50	1.007	0.27	3.729
EE03	50	0.676	0.27	2.505
EE04	50	0.739	0.27	2.736
EE05	50	3.275	0.27	12.129
EE06	50	2.168	0.27	8.030
EE07	50	0.747	0.27	2.767
EE08	50	3.143	0.27	11.639
EE09	50	2.863	0.27	10.604
EE10	50	1.709	0.27	6.331
EW01	50	1.228	0.27	4.530
EW02	50	0.687	0.27	2.546
EW03	50	0.462	0.27	1.712
Unused	50	0.000	0.27	0.000
Unused	50	0.000	0.27	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiler/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-41
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Chromium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	20,000	3,100	10,000	10,000	1,000	1,000	1,000	1,000	0.000	16,500	0.000	5,000
EE02	48,000	3,100	24,000	24,000	2,400	2,400	2,400	2,400	0.000	64,372	0.000	12,000
EE03	34,400	3,100	17,200	17,200	1,720	1,720	1,720	1,720	0.000	25,704	0.000	8,600
EE04	25,200	3,600	12,600	12,600	1,260	1,260	1,260	1,260	0.000	86,400	0.000	6,300
EE05	88,000	3,600	44,000	44,000	4,400	4,400	4,400	4,400	0.000	584,220	0.000	22,000
EE06	20,000	3,600	10,000	10,000	1,000	1,000	1,000	1,000	0.000	563,200	0.000	5,000
EE07	24,400	4,100	12,200	12,200	1,220	1,220	1,220	1,220	0.000	89,460	0.000	6,100
EE08	168,000	4,900	84,000	84,000	8,400	8,400	8,400	8,400	0.000	146,610	0.000	42,000
EE09	132,000	4,000	66,000	66,000	6,600	6,600	6,600	6,600	0.000	238,620	0.000	33,000
EE10	64,000	4,000	32,000	32,000	3,200	3,200	3,200	3,200	0.000	202,800	0.000	16,000
EW01	20,000	2,700	10,000	10,000	1,000	1,000	1,000	1,000	0.000	272,580	0.000	5,000
EW02	26,400	2,700	13,200	13,200	1,320	1,320	1,320	1,320	0.000	70,725	0.000	6,600
EW03	20,000	2,300	10,000	10,000	1,000	1,000	1,000	1,000	0.000	33,292	0.000	5,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	50	0.427	2.70	0.158	
EE02	50	1.007	2.70	0.373	
EE03	50	0.676	2.70	0.250	
EE04	50	0.739	2.70	0.274	
EE05	50	3.275	2.70	1.213	
EE06	50	2.168	2.70	0.803	
EE07	50	0.747	2.70	0.277	
EE08	50	3.143	2.70	1.164	
EE09	50	2.863	2.70	1.060	
EE10	50	1.709	2.70	0.633	
EW01	50	1.228	2.70	0.455	
EW02	50	0.687	2.70	0.255	
EW03	50	0.462	2.70	0.171	
Unused	50	0.000	2.70	0.000	
Unused	50	0.000	2.70	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-42
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Green Heron exposed to Chromium

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	14.95	21.90	43.80	3.28	0.00	1.09	5.47	0.00	9.44	0.00	0.07
EE02	0.00	7.35	22.08	44.17	3.31	0.00	1.10	5.52	0.00	16.39	0.00	0.07
EE03	0.00	10.85	21.61	43.23	3.24	0.00	1.08	5.40	0.00	14.52	0.00	0.07
EE04	0.00	10.69	16.84	33.69	2.53	0.00	0.84	4.21	0.00	31.15	0.00	0.05
EE05	0.00	2.45	9.23	18.47	1.38	0.00	0.46	2.31	0.00	65.66	0.00	0.03
EE06	0.00	4.35	6.06	12.13	0.91	0.00	0.30	1.52	0.00	74.71	0.00	0.02
EE07	0.00	14.29	16.70	33.40	2.50	0.00	0.83	4.17	0.00	28.05	0.00	0.05
EE08	0.00	4.69	24.10	48.20	3.61	0.00	1.20	6.02	0.00	12.10	0.00	0.07
EE09	0.00	3.97	19.45	38.91	2.92	0.00	0.97	4.86	0.00	28.86	0.00	0.06
EE10	0.00	6.49	19.09	38.18	2.86	0.00	0.95	4.77	0.00	27.59	0.00	0.06
EW01	0.00	4.11	10.53	21.07	1.58	0.00	0.53	2.63	0.00	59.52	0.00	0.03
EW02	0.00	6.16	18.33	36.66	2.75	0.00	0.92	4.58	0.00	30.53	0.00	0.06
EW03	0.00	7.00	20.64	41.27	3.10	0.00	1.03	5.16	0.00	21.74	0.00	0.06
Average	0.00	7.49	17.43	34.86	2.61	0.00	0.87	4.36	0.00	32.33	0.00	0.05

**TABLE I-43
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Cobalt**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.748	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.683	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.321	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.750	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.454	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	7.361	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.344	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.420	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.954	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.945	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	35.860	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.351	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.266	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.172	0.24	0.715
EE02	50	0.171	0.24	0.714
EE03	50	0.167	0.24	0.696
EE04	50	0.168	0.24	0.702
EE05	50	0.183	0.24	0.764
EE06	50	0.186	0.24	0.776
EE07	50	0.173	0.24	0.723
EE08	50	0.174	0.24	0.724
EE09	50	0.175	0.24	0.731
EE10	50	0.175	0.24	0.731
EW01	50	0.272	0.24	1.133
EW02	50	0.169	0.24	0.704
EW03	50	0.172	0.24	0.717
Unused	50	0.000	0.24	0.000
Unused	50	0.000	0.24	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-44
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Cobalt**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.748	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.683	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.321	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.750	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.454	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	7.361	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.344	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.420	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.954	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.945	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	35.860	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.351	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.266	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.172	2.40	0.071
EE02	50	0.171	2.40	0.071
EE03	50	0.167	2.40	0.070
EE04	50	0.168	2.40	0.070
EE05	50	0.183	2.40	0.076
EE06	50	0.186	2.40	0.078
EE07	50	0.173	2.40	0.072
EE08	50	0.174	2.40	0.072
EE09	50	0.175	2.40	0.073
EE10	50	0.175	2.40	0.073
EW01	50	0.272	2.40	0.113
EW02	50	0.169	2.40	0.070
EW03	50	0.172	2.40	0.072
Unused	50	0.000	2.40	0.000
Unused	50	0.000	2.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-45
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Cobalt**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.500	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.888	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.634	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.840	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.630	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	8.800	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	5.609	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.519	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.100	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.446	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	56.280	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.750	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.072	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.177	0.24	0.738
EE02	50	0.172	0.24	0.717
EE03	50	0.168	0.24	0.700
EE04	50	0.169	0.24	0.703
EE05	50	0.184	0.24	0.766
EE06	50	0.191	0.24	0.795
EE07	50	0.181	0.24	0.753
EE08	50	0.174	0.24	0.725
EE09	50	0.176	0.24	0.733
EE10	50	0.177	0.24	0.737
EW01	50	0.337	0.24	1.402
EW02	50	0.170	0.24	0.710
EW03	50	0.178	0.24	0.740
Unused	50	0.000	0.24	0.000
Unused	50	0.000	0.24	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

TABLE I-46
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Cobalt

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.500	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.888	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.634	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.840	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.630	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	8.800	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	5.609	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.519	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.100	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.446	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	56.280	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.750	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.072	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.177	2.40	0.074
EE02	50	0.172	2.40	0.072
EE03	50	0.168	2.40	0.070
EE04	50	0.169	2.40	0.070
EE05	50	0.184	2.40	0.077
EE06	50	0.191	2.40	0.079
EE07	50	0.181	2.40	0.075
EE08	50	0.174	2.40	0.073
EE09	50	0.176	2.40	0.073
EE10	50	0.177	2.40	0.074
EW01	50	0.337	2.40	0.140
EW02	50	0.170	2.40	0.071
EW03	50	0.178	2.40	0.074
Unused	50	0.000	2.40	0.000
Unused	50	0.000	2.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-47
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Green Heron exposed to Cobalt

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	15.49	25.82	51.64	0.61	0.00	0.20	1.01	0.00	5.07	0.00	0.16
EE02	0.00	15.51	25.85	51.70	0.61	0.00	0.20	1.01	0.00	4.95	0.00	0.16
EE03	0.00	15.91	26.52	53.04	0.62	0.00	0.21	1.04	0.00	2.50	0.00	0.16
EE04	0.00	15.78	26.30	52.61	0.62	0.00	0.21	1.03	0.00	3.29	0.00	0.16
EE05	0.00	14.50	24.17	48.34	0.57	0.00	0.19	0.95	0.00	11.14	0.00	0.15
EE06	0.00	14.28	23.80	47.59	0.56	0.00	0.19	0.93	0.00	12.51	0.00	0.14
EE07	0.00	15.32	25.54	51.08	0.60	0.00	0.20	1.00	0.00	6.10	0.00	0.16
EE08	0.00	15.30	25.50	51.01	0.60	0.00	0.20	1.00	0.00	6.23	0.00	0.15
EE09	0.00	15.15	25.26	50.52	0.59	0.00	0.20	0.99	0.00	7.13	0.00	0.15
EE10	0.00	15.16	25.26	50.52	0.59	0.00	0.20	0.99	0.00	7.12	0.00	0.15
EW01	0.00	8.15	16.29	32.58	0.38	0.00	0.13	0.64	0.00	41.73	0.00	0.10
EW02	0.00	13.10	26.20	52.41	0.62	0.00	0.21	1.03	0.00	6.27	0.00	0.16
EW03	0.00	12.88	25.76	51.53	0.61	0.00	0.20	1.01	0.00	7.85	0.00	0.16
Average	0.00	14.35	24.79	49.58	0.58	0.00	0.19	0.97	0.00	9.38	0.00	0.15

TABLE I-48
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Cyanide

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.250	0.000	0.000	0.008	0.008	0.008	0.008	0.000	0.127	0.000	2.503
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	2.848	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.006	0.01	0.446
EE02	50	0.007	0.01	0.503
EE03	50	0.007	0.01	0.503
EE04	50	0.007	0.01	0.503
EE05	50	0.015	0.01	1.078
EE06	50	0.007	0.01	0.503
EE07	50	0.007	0.01	0.504
EE08	50	0.007	0.01	0.503
EE09	50	0.007	0.01	0.503
EE10	50	0.007	0.01	0.503
EW01	50	0.007	0.01	0.504
EW02	50	0.007	0.01	0.503
EW03	50	0.007	0.01	0.503
Unused	50	0.000	0.01	0.000
Unused	50	0.000	0.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-49
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Cyanide**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.250	0.000	0.000	0.008	0.008	0.008	0.008	0.000	0.127	0.000	2.503
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	2.848	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.006	0.14	0.045
EE02	50	0.007	0.14	0.050
EE03	50	0.007	0.14	0.050
EE04	50	0.007	0.14	0.050
EE05	50	0.015	0.14	0.108
EE06	50	0.007	0.14	0.050
EE07	50	0.007	0.14	0.050
EE08	50	0.007	0.14	0.050
EE09	50	0.007	0.14	0.050
EE10	50	0.007	0.14	0.050
EW01	50	0.007	0.14	0.050
EW02	50	0.007	0.14	0.050
EW03	50	0.007	0.14	0.050
Unused	50	0.000	0.14	0.000
Unused	50	0.000	0.14	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-50
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Cyanide**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	4.836	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.259	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.007	0.01	0.504
EE02	50	0.007	0.01	0.503
EE03	50	0.007	0.01	0.503
EE04	50	0.007	0.01	0.503
EE05	50	0.022	0.01	1.518
EE06	50	0.007	0.01	0.505
EE07	50	0.007	0.01	0.504
EE08	50	0.007	0.01	0.504
EE09	50	0.007	0.01	0.503
EE10	50	0.007	0.01	0.504
EW01	50	0.007	0.01	0.504
EW02	50	0.007	0.01	0.504
EW03	50	0.007	0.01	0.503
Unused	50	0.000	0.01	0.000
Unused	50	0.000	0.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-51
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Cyanide**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	4.836	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.259	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	50	0.007	0.14	0.050	
EE02	50	0.007	0.14	0.050	
EE03	50	0.007	0.14	0.050	
EE04	50	0.007	0.14	0.050	
EE05	50	0.022	0.14	0.152	
EE06	50	0.007	0.14	0.051	
EE07	50	0.007	0.14	0.050	
EE08	50	0.007	0.14	0.050	
EE09	50	0.007	0.14	0.050	
EE10	50	0.007	0.14	0.050	
EW01	50	0.007	0.14	0.050	
EW02	50	0.007	0.14	0.050	
EW03	50	0.007	0.14	0.050	
Unused	50	0.000	0.14	0.000	
Unused	50	0.000	0.14	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-52
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Green Heron exposed to Cyanide

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	86.90	0.00	0.00	1.57	0.00	0.52	2.61	0.00	6.29	0.00	2.11
EE02	0.00	76.98	0.00	0.00	2.77	0.00	0.92	4.62	0.00	10.97	0.00	3.74
EE03	0.00	77.00	0.00	0.00	2.77	0.00	0.92	4.62	0.00	10.94	0.00	3.74
EE04	0.00	77.01	0.00	0.00	2.77	0.00	0.92	4.62	0.00	10.94	0.00	3.74
EE05	0.00	35.92	0.00	0.00	1.29	0.00	0.43	2.16	0.00	58.46	0.00	1.74
EE06	0.00	76.95	0.00	0.00	2.77	0.00	0.92	4.62	0.00	11.00	0.00	3.74
EE07	0.00	76.87	0.00	0.00	2.77	0.00	0.92	4.61	0.00	11.10	0.00	3.73
EE08	0.00	76.98	0.00	0.00	2.77	0.00	0.92	4.62	0.00	10.97	0.00	3.74
EE09	0.00	76.94	0.00	0.00	2.77	0.00	0.92	4.62	0.00	11.02	0.00	3.74
EE10	0.00	76.93	0.00	0.00	2.77	0.00	0.92	4.62	0.00	11.03	0.00	3.74
EW01	0.00	76.89	0.00	0.00	2.77	0.00	0.92	4.61	0.00	11.07	0.00	3.73
EW02	0.00	76.93	0.00	0.00	2.77	0.00	0.92	4.62	0.00	11.02	0.00	3.74
EW03	0.00	76.94	0.00	0.00	2.77	0.00	0.92	4.62	0.00	11.01	0.00	3.74
Average	0.00	74.56	0.00	0.00	2.56	0.00	0.85	4.27	0.00	14.29	0.00	3.46

**TABLE I-53
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Lead**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	4.121	1.640	2.538	2.538	0.029	0.029	0.029	0.029	0.000	19.863	0.000	1.900
EE02	28.197	1.640	17.368	17.368	0.196	0.196	0.196	0.196	0.000	15.070	0.000	13.000
EE03	4.761	1.640	2.933	2.933	0.033	0.033	0.033	0.033	0.000	12.041	0.000	2.195
EE04	3.145	3.940	1.937	1.937	0.022	0.022	0.022	0.022	0.000	112.484	0.000	1.450
EE05	7.917	3.940	4.876	4.876	0.055	0.055	0.055	0.055	0.000	94.793	0.000	3.650
EE06	35.463	3.940	21.844	21.844	0.247	0.247	0.247	0.247	0.000	72.095	0.000	16.350
EE07	6.615	1.700	4.075	4.075	0.046	0.046	0.046	0.046	0.000	7.305	0.000	3.050
EE08	4.772	2.300	2.939	2.939	0.033	0.033	0.033	0.033	0.000	13.223	0.000	2.200
EE09	10.320	1.630	6.480	6.480	0.073	0.073	0.073	0.073	0.000	56.685	0.000	4.850
EE10	4.880	1.630	3.006	3.006	0.034	0.034	0.034	0.034	0.000	16.278	0.000	2.250
EW01	4.555	0.840	2.806	2.806	0.032	0.032	0.032	0.032	0.000	73.370	0.000	2.100
EW02	27.958	0.840	17.221	17.221	0.195	0.195	0.195	0.195	0.000	34.704	0.000	12.890
EW03	3.199	1.183	1.971	1.971	0.022	0.022	0.022	0.022	0.000	10.819	0.000	1.475
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.168	0.04	4.198
EE02	50	0.554	0.04	13.856
EE03	50	0.154	0.04	3.846
EE04	50	0.496	0.04	12.392
EE05	50	0.519	0.04	12.982
EE06	50	0.907	0.04	22.670
EE07	50	0.171	0.04	4.277
EE08	50	0.172	0.04	4.309
EE09	50	0.391	0.04	9.773
EE10	50	0.169	0.04	4.223
EW01	50	0.327	0.04	8.169
EW02	50	0.595	0.04	14.866
EW03	50	0.114	0.04	2.845
Unused	50	0.000	0.04	0.000
Unused	50	0.000	0.04	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptile/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-54
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Lead**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	4.121	1.640	2.538	2.538	0.029	0.029	0.029	0.029	0.000	19.863	0.000	1.900
EE02	28.197	1.640	17.368	17.368	0.196	0.196	0.196	0.196	0.000	15.070	0.000	13.000
EE03	4.761	1.640	2.933	2.933	0.033	0.033	0.033	0.033	0.000	12.041	0.000	2.195
EE04	3.145	3.940	1.937	1.937	0.022	0.022	0.022	0.022	0.000	112.484	0.000	1.450
EE05	7.917	3.940	4.876	4.876	0.055	0.055	0.055	0.055	0.000	94.793	0.000	3.650
EE06	35.463	3.940	21.844	21.844	0.247	0.247	0.247	0.247	0.000	72.095	0.000	16.350
EE07	6.615	1.700	4.075	4.075	0.046	0.046	0.046	0.046	0.000	7.305	0.000	3.050
EE08	4.772	2.300	2.939	2.939	0.033	0.033	0.033	0.033	0.000	13.223	0.000	2.200
EE09	10.520	1.630	6.480	6.480	0.073	0.073	0.073	0.073	0.000	56.685	0.000	4.850
EE10	4.880	1.630	3.006	3.006	0.034	0.034	0.034	0.034	0.000	16.278	0.000	2.250
EW01	4.555	0.840	2.806	2.806	0.032	0.032	0.032	0.032	0.000	73.370	0.000	2.100
EW02	27.958	0.840	17.221	17.221	0.195	0.195	0.195	0.195	0.000	34.704	0.000	12.890
EW03	3.199	1.183	1.971	1.971	0.022	0.022	0.022	0.022	0.000	10.819	0.000	1.475
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.168	0.40	0.420
EE02	50	0.534	0.40	1.386
EE03	50	0.154	0.40	0.385
EE04	50	0.496	0.40	1.239
EE05	50	0.519	0.40	1.298
EE06	50	0.907	0.40	2.267
EE07	50	0.171	0.40	0.428
EE08	50	0.172	0.40	0.431
EE09	50	0.391	0.40	0.977
EE10	50	0.169	0.40	0.423
EW01	50	0.327	0.40	0.817
EW02	50	0.595	0.40	1.487
EW03	50	0.114	0.40	0.284
Unused	50	0.000	0.40	0.000
Unused	50	0.000	0.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-55
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Lead**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	5.856	2.100	3.607	3.607	0.041	0.041	0.041	0.041	0.000	23.200	0.000	2.700
EE02	52.036	2.100	32.064	32.064	0.362	0.362	0.362	0.362	0.000	17.708	0.000	24.000
EE03	7.592	2.100	4.676	4.676	0.053	0.053	0.053	0.053	0.000	21.588	0.000	3.500
EE04	4.338	5.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	196.000	0.000	2.000
EE05	14.749	5.600	9.085	9.085	0.103	0.103	0.103	0.103	0.000	106.080	0.000	6.800
EE06	65.070	5.600	40.080	40.080	0.453	0.453	0.453	0.453	0.000	91.080	0.000	30.000
EE07	6.941	2.500	4.275	4.275	0.048	0.048	0.048	0.048	0.000	10.792	0.000	3.200
EE08	4.989	2.300	3.073	3.073	0.035	0.035	0.035	0.035	0.000	17.820	0.000	2.300
EE09	16.484	2.000	10.154	10.154	0.115	0.115	0.115	0.115	0.000	63.960	0.000	7.600
EE10	4.989	2.000	3.073	3.073	0.035	0.035	0.035	0.035	0.000	23.400	0.000	2.300
EW01	4.772	0.910	2.939	2.939	0.033	0.033	0.033	0.033	0.000	119.700	0.000	2.200
EW02	54.225	0.910	33.400	33.400	0.378	0.378	0.378	0.378	0.000	51.450	0.000	25.000
EW03	4.338	1.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	15.488	0.000	2.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.224	0.04	5.598
EE02	50	0.971	0.04	24.266
EE03	50	0.241	0.04	6.036
EE04	50	0.817	0.04	20.416
EE05	50	0.706	0.04	17.643
EE06	50	1.497	0.04	37.434
EE07	50	0.205	0.04	5.132
EE08	50	0.191	0.04	4.763
EE09	50	0.522	0.04	13.040
EE10	50	0.202	0.04	5.039
EW01	50	0.479	0.04	11.963
EW02	50	1.087	0.04	27.180
EW03	50	0.157	0.04	3.920
Unused	50	0.000	0.04	0.000
Unused	50	0.000	0.04	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-56
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Lead

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	5.856	2.100	3.607	3.607	0.041	0.041	0.041	0.041	0.000	25.200	0.000	2.700
EE02	52.056	2.100	32.064	32.064	0.362	0.362	0.362	0.362	0.000	17.708	0.000	24.000
EE03	7.592	2.100	4.676	4.676	0.053	0.053	0.053	0.053	0.000	21.568	0.000	3.500
EE04	4.338	5.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	196.000	0.000	2.000
EE05	14.749	5.600	9.085	9.085	0.103	0.103	0.103	0.103	0.000	106.080	0.000	6.800
EE06	65.070	5.600	40.080	40.080	0.453	0.453	0.453	0.453	0.000	91.080	0.000	30.000
EE07	6.941	2.500	4.275	4.275	0.048	0.048	0.048	0.048	0.000	10.792	0.000	3.200
EE08	4.989	2.300	3.073	3.073	0.035	0.035	0.035	0.035	0.000	17.820	0.000	2.300
EE09	16.484	2.000	10.154	10.154	0.115	0.115	0.115	0.115	0.000	63.960	0.000	7.600
EE10	4.989	2.000	3.073	3.073	0.035	0.035	0.035	0.035	0.000	23.400	0.000	2.300
EW01	4.772	0.910	2.939	2.939	0.033	0.033	0.033	0.033	0.000	119.700	0.000	2.200
EW02	54.225	0.910	33.400	33.400	0.378	0.378	0.378	0.378	0.000	51.450	0.000	25.000
EW03	4.338	1.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	15.488	0.000	2.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.224	0.40	0.560
EE02	50	0.971	0.40	2.427
EE03	50	0.241	0.40	0.604
EE04	50	0.817	0.40	2.042
EE05	50	0.706	0.40	1.764
EE06	50	1.497	0.40	3.743
EE07	50	0.205	0.40	0.513
EE08	50	0.191	0.40	0.476
EE09	50	0.522	0.40	1.304
EE10	50	0.202	0.40	0.504
EW01	50	0.479	0.40	1.196
EW02	50	1.087	0.40	2.718
EW03	50	0.157	0.40	0.392
Unused	50	0.000	0.40	0.000
Unused	50	0.000	0.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-57
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Green Heron exposed to Lead

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	21.64	13.40	26.79	0.23	0.00	0.08	0.38	0.00	37.43	0.00	0.06
EE02	0.00	6.55	27.77	55.53	0.47	0.00	0.16	0.78	0.00	8.60	0.00	0.13
EE03	0.00	23.62	16.89	33.78	0.29	0.00	0.10	0.48	0.00	24.77	0.00	0.08
EE04	0.00	17.61	3.46	6.93	0.06	0.00	0.02	0.10	0.00	71.81	0.00	0.02
EE05	0.00	16.81	8.32	16.64	0.14	0.00	0.05	0.24	0.00	57.77	0.00	0.04
EE06	0.00	9.62	21.34	42.69	0.36	0.00	0.12	0.60	0.00	25.16	0.00	0.10
EE07	0.00	22.01	21.10	42.21	0.36	0.00	0.12	0.60	0.00	13.51	0.00	0.10
EE08	0.00	29.56	15.11	30.22	0.26	0.00	0.09	0.43	0.00	24.28	0.00	0.07
EE09	0.00	9.24	14.69	29.37	0.25	0.00	0.08	0.42	0.00	45.89	0.00	0.07
EE10	0.00	21.37	15.76	31.52	0.27	0.00	0.09	0.45	0.00	30.48	0.00	0.07
EW01	0.00	5.69	7.61	15.22	0.13	0.00	0.04	0.21	0.00	71.06	0.00	0.03
EW02	0.00	3.13	25.66	51.32	0.44	0.00	0.15	0.73	0.00	18.47	0.00	0.12
EW03	0.00	23.03	15.34	30.69	0.26	0.00	0.09	0.43	0.00	30.09	0.00	0.07
Average	0.00	16.14	15.88	31.76	0.27	0.00	0.09	0.45	0.00	35.33	0.00	0.07

**TABLE I-58
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Mercury**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.110	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.110	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.118	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.272	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.223	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.062	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.092	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.274	0.01	45.622
EE02	50	0.275	0.01	45.781
EE03	50	0.274	0.01	45.626
EE04	50	0.274	0.01	45.591
EE05	50	0.274	0.01	45.708
EE06	50	0.274	0.01	45.682
EE07	50	0.274	0.01	45.591
EE08	50	0.274	0.01	45.597
EE09	50	0.274	0.01	45.590
EE10	50	0.274	0.01	45.613
EW01	50	0.274	0.01	45.683
EW02	50	0.274	0.01	45.590
EW03	50	0.274	0.01	45.590
Unused	50	0.000	0.01	0.000
Unused	50	0.000	0.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-59
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Mercury

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.110	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.410	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.118	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.272	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.223	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.062	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.092	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.274	0.06	4.562
EE02	50	0.275	0.06	4.578
EE03	50	0.274	0.06	4.563
EE04	50	0.274	0.06	4.559
EE05	50	0.274	0.06	4.571
EE06	50	0.274	0.06	4.568
EE07	50	0.274	0.06	4.559
EE08	50	0.274	0.06	4.560
EE09	50	0.274	0.06	4.559
EE10	50	0.274	0.06	4.561
EW01	50	0.274	0.06	4.568
EW02	50	0.274	0.06	4.559
EW03	50	0.274	0.06	4.559
Unused	50	0.000	0.06	0.000
Unused	50	0.000	0.06	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

TABLE I-60
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Mercury

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.170	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.714	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.155	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.387	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.076	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.133	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.399	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE02	50	0.276	0.01	45.941
EE03	50	0.274	0.01	45.646
EE04	50	0.274	0.01	45.591
EE05	50	0.275	0.01	45.769
EE06	50	0.274	0.01	45.683
EE07	50	0.274	0.01	45.591
EE08	50	0.274	0.01	45.604
EE09	50	0.274	0.01	45.590
EE10	50	0.274	0.01	45.634
EW01	50	0.275	0.01	45.775
EW02	50	0.274	0.01	45.590
EW03	50	0.274	0.01	45.590
Unused	50	0.000	0.01	0.000
Unused	50	0.000	0.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-61
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Mercury**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.170	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.714	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.155	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.387	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.076	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.133	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.399	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.274	0.06	4.565
EE02	50	0.276	0.06	4.594
EE03	50	0.274	0.06	4.565
EE04	50	0.274	0.06	4.559
EE05	50	0.275	0.06	4.577
EE06	50	0.274	0.06	4.568
EE07	50	0.274	0.06	4.559
EE08	50	0.274	0.06	4.560
EE09	50	0.274	0.06	4.559
EE10	50	0.274	0.06	4.563
EW01	50	0.275	0.06	4.577
EW02	50	0.274	0.06	4.559
EW03	50	0.274	0.06	4.559
Unused	50	0.000	0.06	0.000
Unused	50	0.000	0.06	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-62
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Green Heron exposed to Mercury

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	0.40	32.37	64.74	1.22	0.00	0.32	0.81	0.00	0.13	0.00	0.00
EE02	0.00	0.40	32.26	64.52	1.22	0.00	0.32	0.81	0.00	0.47	0.00	0.00
EE03	0.00	0.40	32.37	64.73	1.22	0.00	0.32	0.81	0.00	0.14	0.00	0.00
EE04	0.00	0.40	32.39	64.78	1.22	0.00	0.32	0.81	0.00	0.06	0.00	0.00
EE05	0.00	0.40	32.31	64.62	1.22	0.00	0.32	0.81	0.00	0.31	0.00	0.00
EE06	0.00	0.40	32.33	64.66	1.22	0.00	0.32	0.81	0.00	0.26	0.00	0.00
EE07	0.00	0.40	32.39	64.78	1.22	0.00	0.32	0.81	0.00	0.06	0.00	0.00
EE08	0.00	0.40	32.39	64.78	1.22	0.00	0.32	0.81	0.00	0.07	0.00	0.00
EE09	0.00	0.40	32.39	64.79	1.22	0.00	0.32	0.81	0.00	0.06	0.00	0.00
EE10	0.00	0.40	32.38	64.75	1.22	0.00	0.32	0.81	0.00	0.11	0.00	0.00
EW01	0.00	0.40	32.33	64.65	1.22	0.00	0.32	0.81	0.00	0.26	0.00	0.00
EW02	0.00	0.40	32.39	64.79	1.22	0.00	0.32	0.81	0.00	0.06	0.00	0.00
EW03	0.00	0.40	32.39	64.79	1.22	0.00	0.32	0.81	0.00	0.06	0.00	0.00
Average	0.00	0.40	32.36	64.72	1.22	0.00	0.32	0.81	0.00	0.16	0.00	0.00

TABLE I-63
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Nickel

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	6.864	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	47.934	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	13.810	0.000	20.000
EE04	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	21.815	0.000	20.000
EE05	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	200.470	0.000	20.000
EE06	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	135.033	0.000	20.000
EE07	1.475	1.700	1.475	1.475	0.031	0.031	0.031	0.031	0.000	19.937	0.000	14.750
EE08	1.500	1.800	1.500	1.500	0.032	0.032	0.032	0.032	0.000	21.024	0.000	15.000
EE09	1.700	1.530	1.700	1.700	0.036	0.036	0.036	0.036	0.000	65.658	0.000	17.000
EE10	2.000	1.530	2.000	2.000	0.042	0.042	0.042	0.042	0.000	41.703	0.000	20.000
EW01	6.900	1.000	6.900	6.900	0.145	0.145	0.145	0.145	0.000	1002.100	0.000	69.000
EW02	1.650	1.000	1.650	1.650	0.035	0.035	0.035	0.035	0.000	51.675	0.000	16.500
EW03	1.600	1.900	1.600	1.600	0.034	0.034	0.034	0.034	0.000	12.551	0.000	16.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.104	0.07	1.555
EE02	50	0.234	0.07	3.495
EE03	50	0.126	0.07	1.884
EE04	50	0.160	0.07	2.384
EE05	50	0.725	0.07	10.822
EE06	50	0.518	0.07	7.732
EE07	50	0.142	0.07	2.119
EE08	50	0.148	0.07	2.214
EE09	50	0.289	0.07	4.316
EE10	50	0.222	0.07	3.310
EW01	50	3.386	0.07	50.541
EW02	50	0.232	0.07	3.460
EW03	50	0.127	0.07	1.889
Unused	50	0.000	0.07	0.000
Unused	50	0.000	0.07	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-64
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Nickel**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	6.864	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	47.934	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	13.810	0.000	20.000
EE04	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	21.815	0.000	20.000
EE05	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	200.470	0.000	20.000
EE06	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	135.033	0.000	20.000
EE07	1.475	1.700	1.475	1.475	0.031	0.031	0.031	0.031	0.000	19.937	0.000	14.750
EE08	1.500	1.800	1.500	1.500	0.032	0.032	0.032	0.032	0.000	21.024	0.000	15.000
EE09	1.700	1.530	1.700	1.700	0.036	0.036	0.036	0.036	0.000	65.658	0.000	17.000
EE10	2.000	1.530	2.000	2.000	0.042	0.042	0.042	0.042	0.000	41.703	0.000	20.000
EW01	6.900	1.000	6.900	6.900	0.145	0.145	0.145	0.145	0.000	1002.100	0.000	69.000
EW02	1.650	1.000	1.650	1.650	0.035	0.035	0.035	0.035	0.000	51.675	0.000	16.500
EW03	1.600	1.900	1.600	1.600	0.034	0.034	0.034	0.034	0.000	12.551	0.000	16.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.104	0.67	0.156
EE02	50	0.234	0.67	0.350
EE03	50	0.126	0.67	0.188
EE04	50	0.160	0.67	0.238
EE05	50	0.725	0.67	1.082
EE06	50	0.518	0.67	0.773
EE07	50	0.142	0.67	0.212
EE08	50	0.148	0.67	0.221
EE09	50	0.289	0.67	0.432
EE10	50	0.222	0.67	0.331
EW01	50	3.386	0.67	5.054
EW02	50	0.232	0.67	0.346
EW03	50	0.127	0.67	0.189
Unused	50	0.000	0.67	0.000
Unused	50	0.000	0.67	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-65
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Nickel

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	8.000	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	48.216	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	17.372	0.000	20.000
EE04	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	25.149	0.000	20.000
EE05	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	258.180	0.000	20.000
EE06	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	228.800	0.000	20.000
EE07	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	36.636	0.000	20.000
EE08	2.000	1.800	2.000	2.000	0.042	0.042	0.042	0.042	0.000	32.319	0.000	20.000
EE09	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	107.420	0.000	20.000
EE10	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	75.426	0.000	20.000
EW01	9.900	1.000	9.900	9.900	0.208	0.208	0.208	0.208	0.000	1751.400	0.000	99.000
EW02	2.000	1.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	78.750	0.000	20.000
EW03	2.000	1.900	2.000	2.000	0.042	0.042	0.042	0.042	0.000	20.592	0.000	20.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	50	0.108	0.07	1.609	
EE02	50	0.235	0.07	3.509	
EE03	50	0.137	0.07	2.052	
EE04	50	0.182	0.07	2.717	
EE05	50	0.919	0.07	13.723	
EE06	50	0.826	0.07	12.336	
EE07	50	0.218	0.07	3.259	
EE08	50	0.198	0.07	2.956	
EE09	50	0.440	0.07	6.569	
EE10	50	0.339	0.07	5.058	
EW01	50	5.841	0.07	87.184	
EW02	50	0.327	0.07	4.885	
EW03	50	0.163	0.07	2.435	
Unused	50	0.000	0.07	0.000	
Unused	50	0.000	0.07	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-66
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Nickel**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	8.000	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	48.216	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	17.372	0.000	20.000
EE04	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	25.149	0.000	20.000
EE05	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	258.180	0.000	20.000
EE06	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	228.800	0.000	20.000
EE07	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	36.636	0.000	20.000
EE08	2.000	1.800	2.000	2.000	0.042	0.042	0.042	0.042	0.000	32.319	0.000	20.000
EE09	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	107.420	0.000	20.000
EE10	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	75.426	0.000	20.000
EW01	9.900	1.000	9.900	9.900	0.208	0.208	0.208	0.208	0.000	1751.400	0.000	99.000
EW02	2.000	1.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	78.750	0.000	20.000
EW03	2.000	1.900	2.000	2.000	0.042	0.042	0.042	0.042	0.000	20.592	0.000	20.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	50	0.108	0.67	0.161	
EE02	50	0.235	0.67	0.351	
EE03	50	0.137	0.67	0.205	
EE04	50	0.182	0.67	0.272	
EE05	50	0.919	0.67	1.372	
EE06	50	0.826	0.67	1.234	
EE07	50	0.218	0.67	0.326	
EE08	50	0.198	0.67	0.296	
EE09	50	0.440	0.67	0.657	
EE10	50	0.339	0.67	0.506	
EW01	50	5.841	0.67	8.718	
EW02	50	0.327	0.67	0.488	
EW03	50	0.163	0.67	0.244	
Unused	50	0.000	0.67	0.000	
Unused	50	0.000	0.67	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-67
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Green Heron exposed to Nickel

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	25.51	17.00	34.01	0.54	0.00	0.18	0.89	0.00	20.84	0.00	1.03
EE02	0.00	11.35	7.57	15.13	0.24	0.00	0.08	0.40	0.00	64.77	0.00	0.46
EE03	0.00	21.06	14.04	28.08	0.44	0.00	0.15	0.74	0.00	34.63	0.00	0.85
EE04	0.00	21.77	11.09	22.19	0.35	0.00	0.12	0.58	0.00	43.22	0.00	0.67
EE05	0.00	4.80	2.44	4.89	0.08	0.00	0.03	0.13	0.00	87.49	0.00	0.15
EE06	0.00	6.71	3.42	6.84	0.11	0.00	0.04	0.18	0.00	82.49	0.00	0.21
EE07	0.00	26.52	9.20	18.41	0.29	0.00	0.10	0.48	0.00	44.43	0.00	0.56
EE08	0.00	26.88	8.96	17.92	0.28	0.00	0.09	0.47	0.00	44.85	0.00	0.54
EE09	0.00	11.72	5.21	10.42	0.16	0.00	0.05	0.27	0.00	71.85	0.00	0.32
EE10	0.00	15.28	7.99	15.98	0.25	0.00	0.08	0.42	0.00	59.51	0.00	0.49
EW01	0.00	0.65	1.81	3.61	0.06	0.00	0.02	0.09	0.00	93.65	0.00	0.11
EW02	0.00	9.56	6.31	12.61	0.20	0.00	0.07	0.33	0.00	70.54	0.00	0.38
EW03	0.00	33.26	11.20	22.41	0.35	0.00	0.12	0.59	0.00	31.39	0.00	0.68
Average	0.00	16.54	8.17	16.35	0.26	0.00	0.09	0.43	0.00	57.67	0.00	0.50

**TABLE I-68
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Selenium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.000	1.210	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.874	0.000	2.500
EE02	2.200	1.210	0.377	0.377	0.020	0.020	0.020	0.020	0.000	0.633	0.000	2.750
EE03	2.000	1.210	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.510	0.000	2.500
EE04	2.000	0.960	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.373	0.000	2.500
EE05	2.000	0.960	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.250	0.000	2.500
EE06	3.000	0.960	0.514	0.514	0.027	0.027	0.027	0.027	0.000	0.343	0.000	3.750
EE07	1.960	0.510	0.336	0.336	0.018	0.018	0.018	0.018	0.000	0.375	0.000	2.450
EE08	2.240	0.670	0.384	0.384	0.020	0.020	0.020	0.020	0.000	0.502	0.000	2.800
EE09	3.000	0.710	0.514	0.514	0.027	0.027	0.027	0.027	0.000	0.368	0.000	3.750
EE10	19.000	0.710	3.256	3.256	0.173	0.173	0.173	0.173	0.000	0.168	0.000	23.750
EW01	2.000	1.017	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.525	0.000	2.500
EW02	3.160	1.017	0.542	0.542	0.029	0.029	0.029	0.029	0.000	0.256	0.000	3.950
EW03	2.240	1.017	0.384	0.384	0.020	0.020	0.020	0.020	0.000	0.371	0.000	2.800
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.040	0.28	0.141
EE02	50	0.040	0.28	0.142
EE03	50	0.038	0.28	0.137
EE04	50	0.032	0.28	0.116
EE05	50	0.032	0.28	0.114
EE06	50	0.037	0.28	0.133
EE07	50	0.022	0.28	0.079
EE08	50	0.028	0.28	0.099
EE09	50	0.032	0.28	0.114
EE10	50	0.111	0.28	0.396
EW01	50	0.034	0.28	0.122
EW02	50	0.039	0.28	0.140
EW03	50	0.035	0.28	0.125
Unused	50	0.000	0.28	0.000
Unused	50	0.000	0.28	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-69
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Selenium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.000	1.210	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.874	0.000	2.500
EE02	2.200	1.210	0.377	0.377	0.020	0.020	0.020	0.020	0.000	0.633	0.000	2.750
EE03	2.000	1.210	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.510	0.000	2.500
EE04	2.000	0.960	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.373	0.000	2.500
EE05	2.000	0.960	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.250	0.000	2.500
EE06	3.000	0.960	0.514	0.514	0.027	0.027	0.027	0.027	0.000	0.343	0.000	3.750
EE07	1.960	0.510	0.336	0.336	0.018	0.018	0.018	0.018	0.000	0.375	0.000	2.450
EE08	2.240	0.670	0.384	0.384	0.020	0.020	0.020	0.020	0.000	0.502	0.000	2.800
EE09	3.000	0.710	0.514	0.514	0.027	0.027	0.027	0.027	0.000	0.368	0.000	3.750
EE10	19.000	0.710	3.256	3.256	0.173	0.173	0.173	0.173	0.000	0.168	0.000	23.750
EW01	2.000	1.017	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.525	0.000	2.500
EW02	3.160	1.017	0.542	0.542	0.029	0.029	0.029	0.029	0.000	0.256	0.000	3.950
EW03	2.240	1.017	0.384	0.384	0.020	0.020	0.020	0.020	0.000	0.371	0.000	2.800
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.040	0.34	0.116
EE02	50	0.040	0.34	0.117
EE03	50	0.038	0.34	0.113
EE04	50	0.032	0.34	0.095
EE05	50	0.032	0.34	0.094
EE06	50	0.037	0.34	0.110
EE07	50	0.022	0.34	0.065
EE08	50	0.028	0.34	0.081
EE09	50	0.032	0.34	0.094
EE10	50	0.111	0.34	0.326
EW01	50	0.034	0.34	0.100
EW02	50	0.039	0.34	0.115
EW03	50	0.035	0.34	0.103
Unused	50	0.000	0.34	0.000
Unused	50	0.000	0.34	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-70
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Selenium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.000	1.500	0.343	0.343	0.018	0.018	0.018	0.018	0.000	1.250	0.000	2.500
EE02	2.400	1.500	0.411	0.411	0.022	0.022	0.022	0.022	0.000	1.008	0.000	3.000
EE03	2.000	1.500	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.516	0.000	2.500
EE04	2.000	1.700	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.498	0.000	2.500
EE05	2.000	1.700	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.250	0.000	2.500
EE06	4.000	1.700	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.484	0.000	5.000
EE07	2.000	0.510	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.498	0.000	2.500
EE08	2.480	0.670	0.425	0.425	0.023	0.023	0.023	0.023	0.000	0.518	0.000	3.100
EE09	4.000	0.980	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.486	0.000	5.000
EE10	35.200	0.980	6.032	6.032	0.321	0.321	0.321	0.321	0.000	0.226	0.000	44.000
EW01	2.000	1.100	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.798	0.000	2.500
EW02	4.000	1.100	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.263	0.000	5.000
EW03	2.480	1.100	0.425	0.425	0.023	0.023	0.023	0.023	0.000	0.492	0.000	3.100
Unured	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unured	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.047	0.28	0.168
EE02	50	0.048	0.28	0.173
EE03	50	0.045	0.28	0.160
EE04	50	0.049	0.28	0.176
EE05	50	0.048	0.28	0.173
EE06	50	0.059	0.28	0.211
EE07	50	0.023	0.28	0.082
EE08	50	0.029	0.28	0.103
EE09	50	0.043	0.28	0.154
EE10	50	0.198	0.28	0.707
EW01	50	0.037	0.28	0.132
EW02	50	0.045	0.28	0.161
EW03	50	0.038	0.28	0.137
Unured	50	0.000	0.28	0.000
Unured	50	0.000	0.28	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-71
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Selenium

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	2.000	1.500	0.343	0.343	0.018	0.018	0.018	0.018	0.000	1.250	0.000	2.500
EE02	2.400	1.500	0.411	0.411	0.022	0.022	0.022	0.022	0.000	1.008	0.000	3.000
EE03	2.000	1.500	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.516	0.000	2.500
EE04	2.000	1.700	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.498	0.000	2.500
EE05	2.000	1.700	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.250	0.000	2.500
EE06	4.000	1.700	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.484	0.000	5.000
EE07	2.000	0.510	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.498	0.000	2.500
EE08	2.480	0.670	0.425	0.425	0.023	0.023	0.023	0.023	0.000	0.518	0.000	3.100
EE09	4.000	0.980	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.486	0.000	5.000
EE10	35.200	0.980	6.032	6.032	0.321	0.321	0.321	0.321	0.000	0.226	0.000	44.000
EW01	2.000	1.100	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.798	0.000	2.500
EW02	4.000	1.100	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.263	0.000	5.000
EW03	2.480	1.100	0.425	0.425	0.023	0.023	0.023	0.023	0.000	0.492	0.000	3.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.047	0.34	0.139
EE02	50	0.048	0.34	0.142
EE03	50	0.045	0.34	0.132
EE04	50	0.049	0.34	0.145
EE05	50	0.048	0.34	0.142
EE06	50	0.059	0.34	0.174
EE07	50	0.023	0.34	0.067
EE08	50	0.029	0.34	0.085
EE09	50	0.043	0.34	0.127
EE10	50	0.198	0.34	0.582
EW01	50	0.037	0.34	0.108
EW02	50	0.045	0.34	0.133
EW03	50	0.038	0.34	0.113
Unused	50	0.000	0.34	0.000
Unused	50	0.000	0.34	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-72
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Green Heron exposed to Selenium

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	67.78	7.68	15.36	0.61	0.00	0.20	1.02	0.00	6.99	0.00	0.34
EE02	0.00	67.38	8.40	16.80	0.67	0.00	0.22	1.12	0.00	5.04	0.00	0.37
EE03	0.00	69.82	7.91	15.82	0.63	0.00	0.21	1.05	0.00	4.20	0.00	0.35
EE04	0.00	65.60	9.37	18.74	0.75	0.00	0.25	1.25	0.00	3.64	0.00	0.41
EE05	0.00	66.40	9.48	18.96	0.76	0.00	0.25	1.26	0.00	2.47	0.00	0.42
EE06	0.00	57.00	12.21	24.42	0.98	0.00	0.33	1.63	0.00	2.91	0.00	0.54
EE07	0.00	50.76	13.37	26.74	1.07	0.00	0.36	1.78	0.00	5.33	0.00	0.59
EE08	0.00	53.78	12.32	24.65	0.98	0.00	0.33	1.64	0.00	5.75	0.00	0.55
EE09	0.00	49.38	14.30	28.60	1.14	0.00	0.38	1.90	0.00	3.66	0.00	0.63
EE10	0.00	14.17	25.99	51.98	2.08	0.00	0.69	3.46	0.00	0.48	0.00	1.15
EW01	0.00	65.94	8.89	17.78	0.71	0.00	0.24	1.18	0.00	4.86	0.00	0.39
EW02	0.00	57.62	12.27	24.55	0.98	0.00	0.33	1.63	0.00	2.07	0.00	0.54
EW03	0.00	64.60	9.75	19.51	0.78	0.00	0.26	1.30	0.00	3.37	0.00	0.43
Average	0.00	57.71	11.69	23.38	0.93	0.00	0.31	1.56	0.00	3.91	0.00	0.52

**TABLE I-73
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Silver**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.348	0.000	0.060
EE02	0.011	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.733	0.000	0.055
EE03	0.023	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.762	0.000	0.115
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.489	0.000	0.050
EE05	0.030	0.320	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.968	0.000	0.150
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.358	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.853	0.000	0.050
EE08	0.024	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.826	0.000	0.120
EE09	0.019	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.491	0.000	0.095
EE10	0.010	1.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.514	0.000	0.050
EW01	0.017	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.316	0.000	0.085
EW02	0.018	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	2.705	0.000	0.090
EW03	0.010	0.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.774	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.035	4.80	0.007
EE02	50	0.020	4.80	0.004
EE03	50	0.017	4.80	0.004
EE04	50	0.009	4.80	0.002
EE05	50	0.036	4.80	0.007
EE06	50	0.027	4.80	0.006
EE07	50	0.010	4.80	0.002
EE08	50	0.031	4.80	0.006
EE09	50	0.043	4.80	0.009
EE10	50	0.036	4.80	0.008
EW01	50	0.043	4.80	0.009
EW02	50	0.025	4.80	0.005
EW03	50	0.013	4.80	0.003
Unused	50	0.000	4.80	0.000
Unused	50	0.000	4.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-74
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
 for Green Heron exposed to Silver

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.348	0.000	0.060
EE02	0.011	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.733	0.000	0.055
EE03	0.023	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.762	0.000	0.115
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.489	0.000	0.050
EE05	0.030	0.320	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.968	0.000	0.150
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.358	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.853	0.000	0.050
EE08	0.024	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.826	0.000	0.120
EE09	0.019	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.491	0.000	0.095
EE10	0.010	1.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.514	0.000	0.050
EW01	0.017	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.316	0.000	0.085
EW02	0.018	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	2.705	0.000	0.090
EW03	0.010	0.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.774	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	50	0.035	43.50	0.001	0.001
EE02	50	0.020	43.50	0.000	0.000
EE03	50	0.017	43.50	0.000	0.000
EE04	50	0.009	43.50	0.000	0.000
EE05	50	0.036	43.50	0.001	0.001
EE06	50	0.027	43.50	0.001	0.001
EE07	50	0.010	43.50	0.000	0.000
EE08	50	0.031	43.50	0.001	0.001
EE09	50	0.043	43.50	0.001	0.001
EE10	50	0.036	43.50	0.001	0.001
EW01	50	0.043	43.50	0.001	0.001
EW02	50	0.025	43.50	0.001	0.001
EW03	50	0.013	43.50	0.000	0.000
Unused	50	0.000	43.50	0.000	0.000
Unused	50	0.000	43.50	0.000	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-75
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Silver

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.014	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.700	0.000	0.070
EE02	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.478	0.000	0.060
EE03	0.036	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.008	0.000	0.180
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.498	0.000	0.050
EE05	0.050	0.320	0.001	0.001	0.002	0.002	0.002	0.002	0.000	9.594	0.000	0.250
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.648	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.207	0.000	0.050
EE08	0.038	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.134	0.000	0.190
EE09	0.028	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	5.822	0.000	0.140
EE10	0.010	1.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.524	0.000	0.050
EW01	0.024	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	15.120	0.000	0.120
EW02	0.026	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.425	0.000	0.130
EW03	0.010	0.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.056	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	50	0.051	4.80	0.011	0.011
EE02	50	0.022	4.80	0.005	0.005
EE03	50	0.018	4.80	0.004	0.004
EE04	50	0.009	4.80	0.002	0.002
EE05	50	0.038	4.80	0.008	0.008
EE06	50	0.041	4.80	0.009	0.009
EE07	50	0.011	4.80	0.002	0.002
EE08	50	0.041	4.80	0.009	0.009
EE09	50	0.056	4.80	0.012	0.012
EE10	50	0.052	4.80	0.011	0.011
EW01	50	0.066	4.80	0.014	0.014
EW02	50	0.032	4.80	0.007	0.007
EW03	50	0.017	4.80	0.003	0.003
Unused	50	0.000	4.80	0.000	0.000
Unused	50	0.000	4.80	0.000	0.000

TABLE I-76
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Silver

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.014	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.700	0.000	0.070
EE02	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.478	0.000	0.060
EE03	0.036	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.008	0.000	0.180
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.496	0.000	0.050
EE05	0.050	0.320	0.001	0.001	0.002	0.002	0.002	0.002	0.000	9.594	0.000	0.250
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.648	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.207	0.000	0.050
EE08	0.038	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.134	0.000	0.190
EE09	0.028	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	5.822	0.000	0.140
EE10	0.010	1.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.524	0.000	0.050
EW01	0.024	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	15.120	0.000	0.120
EW02	0.026	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.425	0.000	0.130
EW03	0.010	0.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.056	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.051	43.50	0.001
EE02	50	0.022	43.50	0.001
EE03	50	0.018	43.50	0.000
EE04	50	0.009	43.50	0.000
EE05	50	0.038	43.50	0.001
EE06	50	0.041	43.50	0.001
EE07	50	0.011	43.50	0.000
EE08	50	0.041	43.50	0.001
EE09	50	0.056	43.50	0.001
EE10	50	0.052	43.50	0.001
EW01	50	0.066	43.50	0.002
EW02	50	0.032	43.50	0.001
EW03	50	0.017	43.50	0.000
Unused	50	0.000	43.50	0.000
Unused	50	0.000	43.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-77
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Green Heron exposed to Silver

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	41.72	0.00	0.01	0.01	0.00	0.00	0.02	0.00	58.21	0.00	0.01
EE02	0.00	72.34	0.01	0.01	0.02	0.00	0.01	0.04	0.00	27.55	0.00	0.01
EE03	0.00	85.44	0.01	0.03	0.06	0.00	0.02	0.10	0.00	14.31	0.00	0.04
EE04	0.00	81.90	0.01	0.02	0.05	0.00	0.02	0.08	0.00	17.88	0.00	0.03
EE05	0.00	19.95	0.01	0.02	0.04	0.00	0.01	0.06	0.00	79.89	0.00	0.02
EE06	0.00	26.03	0.00	0.01	0.02	0.00	0.01	0.03	0.00	73.90	0.00	0.01
EE07	0.00	72.30	0.01	0.02	0.04	0.00	0.01	0.07	0.00	27.51	0.00	0.03
EE08	0.00	91.43	0.01	0.02	0.03	0.00	0.01	0.05	0.00	8.43	0.00	0.02
EE09	0.00	66.56	0.00	0.01	0.02	0.00	0.01	0.03	0.00	33.36	0.00	0.01
EE10	0.00	78.05	0.00	0.01	0.01	0.00	0.00	0.02	0.00	21.90	0.00	0.01
EW01	0.00	38.58	0.00	0.01	0.02	0.00	0.01	0.03	0.00	61.35	0.00	0.01
EW02	0.00	65.82	0.01	0.02	0.03	0.00	0.01	0.05	0.00	34.04	0.00	0.02
EW03	0.00	80.84	0.01	0.02	0.03	0.00	0.01	0.06	0.00	19.02	0.00	0.02
Average	0.00	63.15	0.01	0.01	0.03	0.00	0.01	0.05	0.00	36.72	0.00	0.02

Pentachlorophenol

Krw 187.940451
 TSCF 0.00953747
 KStXy 63.1934835
 Klw 63.2234835
 Kcw 312.617418

TRANSPIRATION

LOCATION	Sediment ug/Kg	TOC mg/Kg	Pore Water (ug/L)	Root (ug/kg)	Stream (ug/L)	Stem (ug/kg)	Leaf (ug/kg)	Fruit (ug/kg)
EEO1	2925	25600	9.287223671	1745.445	0.088576656	5.59746747	5.60012477	27.6906055
EE02	7150	29600	19.63425064	3690.06991	0.187261159	11.833685	11.8393028	58.5411
EE03	2825	22150	10.36680004	1948.34107	0.098873088	6.24813486	6.25110105	30.9094495
EE04	975	10780	7.35166747	1381.6757	0.070116339	4.43089571	4.4329992	21.9195888
EE05	7250	5675	103.841784	19516.0717	0.990388337	62.5860891	62.6158007	309.612644
EE06	5350	31450	13.82716458	2598.68354	0.131876226	8.33371809	8.33767438	41.2268051
EE07	1050	5280	16.16424322	3037.91515	0.154166053	9.74228992	9.7469149	48.1949933
EE08	1675	5715	23.82311662	4477.32727	0.22721236	14.3583406	14.3651569	71.0305414
EE09	1000	29115	2.791792946	524.690824	0.026626653	1.68263097	1.68342977	8.32395557
EE10	975	3050	25.98392634	4883.43083	0.247821027	15.660674	15.6681086	77.4731696
EW01	2900	50450	4.672365702	878.126516	0.044562567	2.81606387	2.81740075	13.9310347
EW02	1000	5315	15.29314235	2874.20007	0.145857951	9.21727201	9.22164775	45.5977359
EW03	950	2000	38.60944952	7256.27734	0.368236629	23.2701554	23.2812025	115.117184

**TABLE I-78
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Total PCBs**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	1.998	454.920	398.055	395.900	395.900	29.929	59.858	0.000	5.815	0.000	0.750
EE02	0.003	1.998	454.920	398.055	395.900	263.933	19.953	39.905	0.000	24.237	0.000	0.500
EE03	0.000	1.998	57.606	30.406	395.900	263.933	19.953	39.905	0.000	0.582	0.000	0.500
EE04	0.001	2.697	113.246	99.090	395.900	263.933	19.953	39.905	0.000	0.531	0.000	0.500
EE05	0.003	2.697	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.720	0.000	0.500
EE06	0.001	2.697	95.927	83.936	395.900	263.933	19.953	39.905	0.000	0.727	0.000	0.500
EE07	0.000	0.600	81.145	71.002	395.900	263.933	19.953	39.905	0.000	0.168	0.000	0.500
EE08	0.000	1.665	47.224	41.321	395.900	263.933	19.953	39.905	0.000	0.114	0.000	0.500
EE09	0.000	0.767	12.081	10.571	395.900	263.933	19.953	39.905	0.000	0.153	0.000	0.500
EE10	0.001	0.767	203.043	177.663	395.900	263.933	19.953	39.905	0.000	0.265	0.000	0.500
EW01	0.003	3.180	454.920	398.055	395.900	263.933	19.953	39.905	0.000	9.336	0.000	0.500
EW02	0.002	3.180	311.530	272.589	395.900	263.933	19.953	39.905	0.000	0.684	0.000	0.500
EW03	0.003	1.980	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.445	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	20.499	1.40	14.642
EE02	50	17.440	1.40	12.457
EE03	50	7.684	1.40	5.489
EE04	50	9.055	1.40	6.468
EE05	50	17.483	1.40	12.488
EE06	50	8.634	1.40	6.167
EE07	50	8.225	1.40	5.875
EE08	50	7.422	1.40	5.302
EE09	50	6.346	1.40	4.676
EE10	50	11.200	1.40	8.000
EW01	50	17.419	1.40	12.442
EW02	50	13.898	1.40	9.927
EW03	50	17.365	1.40	12.403
--	50	0.000	1.40	0.000
--	50	0.000	1.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-79
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Total PCBs

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.003	1.998	454.920	398.055	395.900	395.900	29.929	39.858	0.000	5.815	0.000	0.750
EE02	0.003	1.998	454.920	398.055	395.900	263.933	19.953	39.905	0.000	24.237	0.000	0.500
EE03	0.000	1.998	57.606	50.406	395.900	263.933	19.953	39.905	0.000	0.582	0.000	0.500
EE04	0.001	2.697	113.246	99.090	395.900	263.933	19.953	39.905	0.000	0.531	0.000	0.500
EE05	0.003	2.697	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.720	0.000	0.500
EE06	0.001	2.697	95.927	83.936	395.900	263.933	19.953	39.905	0.000	0.727	0.000	0.500
EE07	0.000	0.600	81.145	71.002	395.900	263.933	19.953	39.905	0.000	0.168	0.000	0.500
EE08	0.000	1.665	47.224	41.321	395.900	263.933	19.953	39.905	0.000	0.114	0.000	0.500
EE09	0.000	0.767	12.081	10.571	395.900	263.933	19.953	39.905	0.000	0.153	0.000	0.500
EE10	0.001	0.767	203.043	177.663	395.900	263.933	19.953	39.905	0.000	0.265	0.000	0.500
EW01	0.003	3.180	454.920	398.055	395.900	263.933	19.953	39.905	0.000	9.336	0.000	0.500
EW02	0.002	3.180	311.530	272.589	395.900	263.933	19.953	39.905	0.000	0.684	0.000	0.500
EW03	0.003	1.980	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.445	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	20.499	1.80	11.388
EE02	50	17.440	1.80	9.689
EE03	50	7.684	1.80	4.269
EE04	50	9.055	1.80	5.031
EE05	50	17.483	1.80	9.713
EE06	50	8.634	1.80	4.797
EE07	50	8.225	1.80	4.570
EE08	50	7.422	1.80	4.124
EE09	50	6.546	1.80	3.637
EE10	50	11.200	1.80	6.222
EW01	50	17.419	1.80	9.677
EW02	50	13.898	1.80	7.721
EW03	50	17.365	1.80	9.647
--	50	0.000	1.80	0.000
--	50	0.000	1.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-80
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Total PCBs**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	3.465	454.920	398.055	791.800	527.867	39.905	79.810	0.000	10.790	0.000	1.000
EE02	0.003	3.465	454.920	398.055	395.900	263.933	19.953	39.905	0.000	26.737	0.000	0.500
EE03	0.000	3.465	79.821	69.844	395.900	263.933	19.953	39.905	0.000	0.813	0.000	0.500
EE04	0.001	3.880	117.151	102.507	395.900	263.933	19.953	39.905	0.000	0.540	0.000	0.500
EE05	0.003	3.880	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.760	0.000	0.500
EE06	0.001	3.880	124.333	108.791	395.900	263.933	19.953	39.905	0.000	0.920	0.000	0.500
EE07	0.001	0.825	130.045	113.789	395.900	263.933	19.953	39.905	0.000	0.261	0.000	0.500
EE08	0.000	1.765	78.733	68.892	395.900	263.933	19.953	39.905	0.000	0.195	0.000	0.500
EE09	0.000	0.965	20.628	18.049	395.900	263.933	19.953	39.905	0.000	0.260	0.000	0.500
EE10	0.002	0.965	271.440	237.510	395.900	263.933	19.953	39.905	0.000	0.345	0.000	0.500
EW01	0.003	3.730	454.920	398.055	395.900	263.933	19.953	39.905	0.000	14.259	0.000	0.500
EW02	0.003	3.730	422.414	369.612	395.900	263.933	19.953	39.905	0.000	0.900	0.000	0.500
EW03	0.003	2.330	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.497	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	23.665	1.40	16.903
EE02	50	17.481	1.40	12.486
EE03	50	8.259	1.40	5.899
EE04	50	9.177	1.40	6.535
EE05	50	17.509	1.40	12.506
EE06	50	9.353	1.40	6.681
EE07	50	9.422	1.40	6.730
EE08	50	8.193	1.40	5.852
EE09	50	6.759	1.40	4.828
EE10	50	12.871	1.40	9.194
EW01	50	17.447	1.40	12.462
EW02	50	16.613	1.40	11.866
EW03	50	17.373	1.40	12.409
--	50	0.000	1.40	0.000
--	50	0.000	1.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-81
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Total PCBs**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	3.465	454.920	398.055	791.800	577.867	39.905	79.810	0.000	10.790	0.000	1.000
EE02	0.003	3.465	454.920	398.055	395.900	263.933	19.933	39.905	0.000	26.737	0.000	0.500
EE03	0.000	3.465	79.821	69.844	395.900	263.933	19.933	39.905	0.000	0.813	0.000	0.500
EE04	0.001	3.880	117.151	102.507	395.900	263.933	19.933	39.905	0.000	0.540	0.000	0.500
EE05	0.003	3.880	454.920	398.055	395.900	263.933	19.933	39.905	0.000	32.760	0.000	0.500
EE06	0.001	3.880	124.333	108.791	395.900	263.933	19.933	39.905	0.000	0.920	0.000	0.500
EE07	0.001	0.825	130.045	113.789	395.900	263.933	19.933	39.905	0.000	0.261	0.000	0.500
EE08	0.000	1.765	78.733	68.892	395.900	263.933	19.933	39.905	0.000	0.195	0.000	0.500
EE09	0.000	0.965	20.628	18.049	395.900	263.933	19.933	39.905	0.000	0.260	0.000	0.500
EE10	0.002	0.965	271.440	237.510	395.900	263.933	19.933	39.905	0.000	0.345	0.000	0.500
EW01	0.003	3.730	454.920	398.055	395.900	263.933	19.933	39.905	0.000	14.259	0.000	0.500
EW02	0.003	3.730	422.414	369.612	395.900	263.933	19.933	39.905	0.000	0.900	0.000	0.500
EW03	0.003	2.330	454.920	398.055	395.900	263.933	19.933	39.905	0.000	0.497	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	50	23.665	1.80	13.147	
EE02	50	17.481	1.80	9.712	
EE03	50	8.259	1.80	4.588	
EE04	50	9.177	1.80	5.098	
EE05	50	17.509	1.80	9.727	
EE06	50	9.353	1.80	5.196	
EE07	50	9.422	1.80	5.235	
EE08	50	8.193	1.80	4.551	
EE09	50	6.759	1.80	3.755	
EE10	50	12.871	1.80	7.151	
EW01	50	17.447	1.80	9.691	
EW02	50	16.613	1.80	9.229	
EW03	50	17.373	1.80	9.651	
--	50	0.000	1.80	0.000	
--	50	0.000	1.80	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiler/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-82
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Green Heron exposed to Total PCBs

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	0.22	19.66	34.41	38.50	0.00	0.65	6.47	0.00	0.09	0.00	0.00
EE02	0.00	0.25	23.11	40.45	30.17	0.00	0.51	5.07	0.00	0.44	0.00	0.00
EE03	0.00	0.58	6.64	11.62	68.48	0.00	1.15	11.50	0.00	0.02	0.00	0.00
EE04	0.00	0.66	11.08	19.39	58.11	0.00	0.98	9.76	0.00	0.02	0.00	0.00
EE05	0.00	0.34	23.06	40.35	30.10	0.00	0.51	5.06	0.00	0.59	0.00	0.00
EE06	0.00	0.69	9.84	17.23	60.95	0.00	1.02	10.24	0.00	0.03	0.00	0.00
EE07	0.00	0.16	8.74	15.30	63.97	0.00	1.07	10.75	0.00	0.01	0.00	0.00
EE08	0.00	0.50	5.64	9.87	70.89	0.00	1.19	11.91	0.00	0.00	0.00	0.00
EE09	0.00	0.26	1.64	2.86	80.38	0.00	1.35	13.50	0.00	0.01	0.00	0.00
EE10	0.00	0.15	16.06	28.11	46.98	0.00	0.79	7.89	0.00	0.01	0.00	0.00
EW01	0.00	0.40	23.14	40.50	30.21	0.00	0.51	5.07	0.00	0.17	0.00	0.00
EW02	0.00	0.51	19.86	34.76	37.86	0.00	0.64	6.36	0.00	0.02	0.00	0.00
EW03	0.00	0.25	23.21	40.62	30.30	0.00	0.51	5.09	0.00	0.01	0.00	0.00
Average	0.00	0.38	14.75	25.81	49.76	0.00	0.84	8.36	0.00	0.11	0.00	0.00

TABLE I-83
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Aldrin

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	0.840	0.735	0.298	0.199	0.062	0.123	0.000	0.046	0.000	0.025
EE02	0.001	0.009	1.387	1.213	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.190	0.167	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.043	0.004	72.324	63.284	0.298	0.199	0.062	0.123	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.572	0.500	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.000	0.003	0.522	0.457	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE08	0.001	0.009	1.368	1.197	0.298	0.199	0.062	0.123	0.000	0.016	0.000	0.025
EE09	0.000	0.009	0.074	0.064	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE10	0.000	0.009	0.272	0.238	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	0.877	0.768	0.298	0.199	0.062	0.123	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.607	0.531	0.298	0.199	0.062	0.123	0.000	0.006	0.000	0.025
EW03	0.001	0.017	0.963	0.842	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.028	0.07	0.421
EE02	50	0.041	0.07	0.625
EE03	50	0.010	0.07	0.148
EE04	50	0.012	0.07	0.178
EE05	50	1.772	0.07	26.891
EE06	50	0.021	0.07	0.319
EE07	50	0.020	0.07	0.300
EE08	50	0.041	0.07	0.615
EE09	50	0.009	0.07	0.136
EE10	50	0.014	0.07	0.209
EW01	50	0.029	0.07	0.438
EW02	50	0.022	0.07	0.336
EW03	50	0.031	0.07	0.467
--	50	0.000	0.07	0.000
--	50	0.000	0.07	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-84
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Aldrin**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	0.840	0.735	0.298	0.199	0.062	0.123	0.000	0.046	0.000	0.025
EE02	0.001	0.009	1.387	1.213	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.190	0.167	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.043	0.004	72.324	63.284	0.298	0.199	0.062	0.123	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.572	0.500	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.000	0.003	0.522	0.457	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE08	0.001	0.009	1.368	1.197	0.298	0.199	0.062	0.123	0.000	0.016	0.000	0.025
EE09	0.000	0.009	0.074	0.064	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE10	0.000	0.009	0.272	0.238	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	0.877	0.768	0.298	0.199	0.062	0.123	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.607	0.531	0.298	0.199	0.062	0.123	0.000	0.006	0.000	0.025
EW03	0.001	0.017	0.963	0.842	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.028	0.66	0.042
EE02	50	0.041	0.66	0.063
EE03	50	0.010	0.66	0.015
EE04	50	0.012	0.66	0.018
EE05	50	1.772	0.66	2.689
EE06	50	0.021	0.66	0.032
EE07	50	0.020	0.66	0.030
EE08	50	0.041	0.66	0.062
EE09	50	0.009	0.66	0.014
EE10	50	0.014	0.66	0.021
EW01	50	0.029	0.66	0.044
EW02	50	0.022	0.66	0.034
EW03	50	0.031	0.66	0.047
--	50	0.000	0.66	0.000
--	50	0.000	0.66	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-85
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Aldrin**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ng/L)
EE01	0.001	0.009	1.603	1.403	0.298	0.199	0.062	0.123	0.000	0.087	0.000	0.025
EE02	0.001	0.009	1.453	1.271	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.176	0.154	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.199	0.175	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.045	0.004	75.768	66.297	0.298	0.199	0.062	0.123	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.584	0.511	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.001	0.003	0.962	0.842	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE08	0.001	0.009	2.326	2.035	0.298	0.199	0.062	0.123	0.000	0.028	0.000	0.025
EE09	0.000	0.009	0.133	0.116	0.298	0.199	0.062	0.123	0.000	0.008	0.000	0.025
EE10	0.000	0.009	0.282	0.247	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	1.588	1.390	0.298	0.199	0.062	0.123	0.000	0.086	0.000	0.025
EW02	0.000	0.017	0.846	0.740	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EW03	0.001	0.017	0.977	0.855	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.046	0.07	0.705
EE02	50	0.043	0.07	0.650
EE03	50	0.011	0.07	0.174
EE04	50	0.012	0.07	0.181
EE05	50	1.856	0.07	28.164
EE06	50	0.021	0.07	0.324
EE07	50	0.031	0.07	0.463
EE08	50	0.064	0.07	0.970
EE09	50	0.010	0.07	0.158
EE10	50	0.014	0.07	0.213
EW01	50	0.046	0.07	0.703
EW02	50	0.028	0.07	0.424
EW03	50	0.031	0.07	0.473
--	50	0.000	0.07	0.000
--	50	0.000	0.07	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-86
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Aldrin

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.009	1.603	1.403	0.298	0.199	0.062	0.123	0.000	0.087	0.000	0.025
EE02	0.001	0.009	1.453	1.271	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.176	0.154	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.199	0.175	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.045	0.004	75.768	66.297	0.298	0.199	0.062	0.123	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.584	0.511	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.001	0.003	0.962	0.842	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE08	0.001	0.009	2.326	2.035	0.298	0.199	0.062	0.123	0.000	0.028	0.000	0.025
EE09	0.000	0.009	0.133	0.116	0.298	0.199	0.062	0.123	0.000	0.008	0.000	0.025
EE10	0.000	0.009	0.282	0.247	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	1.588	1.390	0.298	0.199	0.062	0.123	0.000	0.086	0.000	0.025
EW02	0.000	0.017	0.846	0.740	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EW03	0.001	0.017	0.977	0.855	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.046	0.66	0.071
EE02	50	0.043	0.66	0.065
EE03	50	0.011	0.66	0.017
EE04	50	0.012	0.66	0.018
EE05	50	1.856	0.66	2.816
EE06	50	0.021	0.66	0.032
EE07	50	0.031	0.66	0.046
EE08	50	0.064	0.66	0.097
EE09	50	0.010	0.66	0.016
EE10	50	0.014	0.66	0.021
EW01	50	0.046	0.66	0.070
EW02	50	0.028	0.66	0.042
EW03	50	0.031	0.66	0.047
--	50	0.000	0.66	0.000
--	50	0.000	0.66	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-87
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Green Heron exposed to Aldrin

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	0.68	26.81	46.92	14.26	0.00	0.98	9.82	0.00	0.53	0.00	0.00
EE02	0.00	0.46	29.82	52.19	9.61	0.00	0.66	6.62	0.00	0.64	0.00	0.00
EE03	0.00	1.93	9.63	16.85	40.63	0.00	2.80	27.98	0.00	0.17	0.00	0.01
EE04	0.00	0.80	14.41	25.22	33.82	0.00	2.33	23.29	0.00	0.12	0.00	0.01
EE05	0.00	0.01	36.16	63.29	0.22	0.00	0.02	0.15	0.00	0.15	0.00	0.00
EE06	0.00	0.45	24.07	42.12	18.80	0.00	1.29	12.95	0.00	0.31	0.00	0.01
EE07	0.00	0.38	23.40	40.94	20.02	0.00	1.38	13.79	0.00	0.08	0.00	0.01
EE08	0.00	0.46	29.91	52.34	9.77	0.00	0.67	6.72	0.00	0.12	0.00	0.00
EE09	0.00	2.10	7.28	12.73	44.22	0.00	3.04	30.45	0.00	0.16	0.00	0.02
EE10	0.00	1.37	17.50	30.63	28.71	0.00	1.98	19.77	0.00	0.04	0.00	0.01
EW01	0.00	1.30	26.92	47.12	13.70	0.00	0.94	9.44	0.00	0.57	0.00	0.00
EW02	0.00	1.70	24.28	42.50	17.88	0.00	1.23	12.31	0.00	0.09	0.00	0.01
EW03	0.00	1.22	27.69	48.46	12.85	0.00	0.88	8.85	0.00	0.04	0.00	0.00
Average	0.00	0.99	22.91	40.10	20.34	0.00	1.40	14.01	0.00	0.23	0.00	0.01

TABLE I-88
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to alpha-Chlordane

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	1.331	1.165	1.759	1.173	0.173	0.347	0.000	0.046	0.000	0.025
EE02	0.000	0.009	2.198	1.923	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.168	0.147	1.759	1.173	0.173	0.347	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.302	0.264	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.070	0.004	567.672	496.713	1.759	1.173	0.173	0.347	0.000	4.096	0.000	0.025
EE06	0.000	0.004	0.182	0.159	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.202	0.177	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.125	0.109	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.034	0.029	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE10	0.000	0.009	0.432	0.378	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	1.391	1.217	1.759	1.173	0.173	0.347	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.962	0.841	1.759	1.173	0.173	0.347	0.000	0.006	0.000	0.025
EW03	0.000	0.017	1.526	1.335	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.065	2.50	0.026
EE02	50	0.086	2.50	0.034
EE03	50	0.036	2.50	0.014
EE04	50	0.039	2.50	0.016
EE05	50	13.877	2.50	5.551
EE06	50	0.036	2.50	0.015
EE07	50	0.037	2.50	0.015
EE08	50	0.035	2.50	0.014
EE09	50	0.033	2.50	0.013
EE10	50	0.043	2.50	0.017
EW01	50	0.066	2.50	0.027
EW02	50	0.056	2.50	0.022
EW03	50	0.069	2.50	0.028
--	50	0.000	2.50	0.000
--	50	0.000	2.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-89
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to alpha-Chlordane

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	1.331	1.165	1.759	1.173	0.173	0.347	0.000	0.046	0.000	0.025
EE02	0.000	0.009	2.198	1.923	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.168	0.147	1.759	1.173	0.173	0.347	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.302	0.264	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.070	0.004	567.672	496.713	1.759	1.173	0.173	0.347	0.000	4.096	0.000	0.025
EE06	0.000	0.004	0.182	0.159	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.202	0.177	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.125	0.109	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.034	0.029	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE10	0.000	0.009	0.432	0.378	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	1.391	1.217	1.759	1.173	0.173	0.347	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.962	0.841	1.759	1.173	0.173	0.347	0.000	0.006	0.000	0.025
EW03	0.000	0.017	1.526	1.335	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.065	2.50	0.026
EE02	50	0.086	2.50	0.034
EE03	50	0.036	2.50	0.014
EE04	50	0.039	2.50	0.016
EE05	50	13.877	2.50	5.551
EE06	50	0.036	2.50	0.015
EE07	50	0.037	2.50	0.015
EE08	50	0.035	2.50	0.014
EE09	50	0.033	2.50	0.013
EE10	50	0.043	2.50	0.017
EW01	50	0.066	2.50	0.027
EW02	50	0.056	2.50	0.022
EW03	50	0.069	2.50	0.028
--	50	0.000	2.50	0.000
--	50	0.000	2.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-90
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to alpha-Chlordane**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	2.541	2.223	1.759	1.173	0.173	0.347	0.000	0.087	0.000	0.025
EE02	0.000	0.009	2.302	2.015	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.280	0.245	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.316	0.277	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.096	0.004	776.691	679.604	1.759	1.173	0.173	0.347	0.000	7.332	0.000	0.025
EE06	0.000	0.004	0.187	0.164	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.282	0.246	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.136	0.119	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.045	0.039	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE10	0.000	0.009	0.447	0.391	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	2.517	2.203	1.759	1.173	0.173	0.347	0.000	0.086	0.000	0.025
EW02	0.000	0.017	1.340	1.173	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EW03	0.000	0.017	1.549	1.355	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.094	2.50	0.038
EE02	50	0.088	2.50	0.035
EE03	50	0.039	2.50	0.016
EE04	50	0.040	2.50	0.016
EE05	50	18.981	2.50	7.592
EE06	50	0.036	2.50	0.015
EE07	50	0.039	2.50	0.016
EE08	50	0.035	2.50	0.014
EE09	50	0.033	2.50	0.013
EE10	50	0.043	2.50	0.017
EW01	50	0.094	2.50	0.038
EW02	50	0.065	2.50	0.026
EW03	50	0.070	2.50	0.028
--	50	0.000	2.50	0.000
--	50	0.000	2.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-91
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to alpha-Chlordane**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.000	0.009	2.541	2.223	1.759	1.173	0.173	0.347	0.000	0.087	0.000	0.025
EE02	0.000	0.009	2.302	2.015	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.280	0.245	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.316	0.277	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.096	0.004	776.691	679.604	1.759	1.173	0.173	0.347	0.000	7.332	0.000	0.025
EE06	0.000	0.004	0.187	0.164	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.282	0.246	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.136	0.119	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.045	0.039	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE10	0.000	0.009	0.447	0.391	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	2.517	2.203	1.759	1.173	0.173	0.347	0.000	0.086	0.000	0.025
EW02	0.000	0.017	1.340	1.173	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EW03	0.000	0.017	1.549	1.355	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	50	0.094	2.50	0.038	
EE02	50	0.088	2.50	0.035	
EE03	50	0.039	2.50	0.016	
EE04	50	0.040	2.50	0.016	
EE05	50	18.981	2.50	7.592	
EE06	50	0.036	2.50	0.015	
EE07	50	0.039	2.50	0.016	
EE08	50	0.035	2.50	0.014	
EE09	50	0.033	2.50	0.013	
EE10	50	0.043	2.50	0.017	
EW01	50	0.094	2.50	0.038	
EW02	50	0.065	2.50	0.026	
EW03	50	0.070	2.50	0.028	
--	50	0.000	2.50	0.000	
--	50	0.000	2.50	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-92
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Green Heron exposed to alpha-Chlordane

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	0.29	18.26	31.95	36.19	0.00	1.19	11.89	0.00	0.23	0.00	0.00
EE02	0.00	0.22	22.69	39.70	27.24	0.00	0.89	8.95	0.00	0.31	0.00	0.00
EE03	0.00	0.52	4.12	7.20	64.72	0.00	2.13	21.26	0.00	0.05	0.00	0.00
EE04	0.00	0.24	6.80	11.91	59.51	0.00	1.95	19.55	0.00	0.03	0.00	0.00
EE05	0.00	0.00	36.25	63.43	0.17	0.00	0.01	0.06	0.00	0.09	0.00	0.00
EE06	0.00	0.26	4.44	7.77	64.27	0.00	2.11	21.11	0.00	0.04	0.00	0.00
EE07	0.00	0.20	4.87	8.52	63.46	0.00	2.08	20.85	0.00	0.01	0.00	0.00
EE08	0.00	0.54	3.15	5.51	66.69	0.00	2.19	21.91	0.00	0.01	0.00	0.00
EE09	0.00	0.57	0.90	1.58	71.19	0.00	2.34	23.39	0.00	0.01	0.00	0.00
EE10	0.00	0.44	8.99	15.73	54.96	0.00	1.81	18.06	0.00	0.01	0.00	0.00
EW01	0.00	0.57	18.60	32.55	35.29	0.00	1.16	11.59	0.00	0.25	0.00	0.00
EW02	0.00	0.68	15.31	26.79	42.00	0.00	1.38	13.80	0.00	0.04	0.00	0.00
EW03	0.00	0.54	19.48	34.09	33.69	0.00	1.11	11.07	0.00	0.02	0.00	0.00
Average	0.00	0.39	12.60	22.06	47.64	0.00	1.57	15.65	0.00	0.08	0.00	0.00

**TABLE I-93
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Dieldrin**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.019	0.017	0.164	0.144	0.001	0.001	0.001	0.002	0.000	0.088	0.000	0.050
EE02	0.033	0.017	0.280	0.245	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE03	0.002	0.017	0.021	0.018	0.001	0.001	0.001	0.002	0.000	0.010	0.000	0.050
EE04	0.004	0.008	0.038	0.033	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	16.280	0.000	0.061
EE06	0.003	0.008	0.023	0.020	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.003	0.007	0.025	0.022	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE08	0.021	0.017	0.175	0.153	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE09	0.000	0.017	0.004	0.004	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE10	0.006	0.017	0.054	0.047	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.020	0.033	0.173	0.151	0.001	0.001	0.001	0.002	0.000	0.100	0.000	0.050
EW02	0.014	0.033	0.120	0.105	0.001	0.001	0.001	0.002	0.000	0.012	0.000	0.061
EW03	0.023	0.033	0.195	0.171	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.005	0.09	0.053
EE02	50	0.008	0.09	0.088
EE03	50	0.001	0.09	0.011
EE04	50	0.001	0.09	0.013
EE05	50	0.203	0.09	2.291
EE06	50	0.001	0.09	0.009
EE07	50	0.001	0.09	0.009
EE08	50	0.005	0.09	0.054
EE09	50	0.001	0.09	0.006
EE10	50	0.002	0.09	0.020
EW01	50	0.005	0.09	0.060
EW02	50	0.004	0.09	0.043
EW03	50	0.006	0.09	0.063
--	50	0.000	0.09	0.000
--	50	0.000	0.09	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-94
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Dieldrin**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.019	0.017	0.164	0.144	0.001	0.001	0.001	0.002	0.000	0.088	0.000	0.050
EE02	0.033	0.017	0.280	0.245	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE03	0.002	0.017	0.021	0.018	0.001	0.001	0.001	0.002	0.000	0.010	0.000	0.050
EE04	0.004	0.008	0.038	0.033	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.777	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	16.280	0.000	0.061
EE06	0.003	0.008	0.023	0.020	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.003	0.007	0.025	0.022	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE08	0.021	0.017	0.175	0.153	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE09	0.000	0.017	0.004	0.004	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE10	0.006	0.017	0.054	0.047	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.020	0.033	0.173	0.151	0.001	0.001	0.001	0.002	0.000	0.100	0.000	0.050
EW02	0.014	0.033	0.120	0.105	0.001	0.001	0.001	0.002	0.000	0.012	0.000	0.061
EW03	0.023	0.033	0.195	0.171	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.005	0.88	0.005
EE02	50	0.008	0.88	0.009
EE03	50	0.001	0.88	0.001
EE04	50	0.001	0.88	0.001
EE05	50	0.203	0.88	0.229
EE06	50	0.001	0.88	0.001
EE07	50	0.001	0.88	0.001
EE08	50	0.005	0.88	0.005
EE09	50	0.001	0.88	0.001
EE10	50	0.002	0.88	0.002
EW01	50	0.005	0.88	0.006
EW02	50	0.004	0.88	0.004
EW03	50	0.006	0.88	0.006
--	50	0.000	0.88	0.000
--	50	0.000	0.88	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

TABLE I-95
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Dieldrin

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.037	0.017	0.313	0.273	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE02	0.035	0.017	0.297	0.260	0.001	0.001	0.001	0.002	0.000	0.167	0.000	0.050
EE03	0.004	0.017	0.035	0.031	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE04	0.005	0.008	0.039	0.034	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	17.940	0.000	0.072
EE06	0.003	0.008	0.024	0.021	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.004	0.007	0.036	0.031	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE08	0.039	0.017	0.336	0.294	0.001	0.001	0.001	0.002	0.000	0.033	0.000	0.050
EE09	0.001	0.017	0.006	0.005	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE10	0.007	0.017	0.056	0.049	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.037	0.033	0.313	0.274	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EW02	0.019	0.033	0.166	0.145	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.072
EW03	0.024	0.033	0.200	0.175	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.009	0.09	0.097
EE02	50	0.008	0.09	0.093
EE03	50	0.001	0.09	0.015
EE04	50	0.001	0.09	0.014
EE05	50	0.208	0.09	2.351
EE06	50	0.001	0.09	0.010
EE07	50	0.001	0.09	0.012
EE08	50	0.009	0.09	0.099
EE09	50	0.001	0.09	0.006
EE10	50	0.002	0.09	0.020
EW01	50	0.009	0.09	0.101
EW02	50	0.005	0.09	0.055
EW03	50	0.006	0.09	0.064
--	50	0.000	0.09	0.000
--	50	0.000	0.09	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

TABLE I-96
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Dieldrin

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.037	0.017	0.313	0.273	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE02	0.035	0.017	0.297	0.260	0.001	0.001	0.001	0.002	0.000	0.167	0.000	0.050
EE03	0.004	0.017	0.035	0.031	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE04	0.005	0.008	0.039	0.034	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	17.940	0.000	0.072
EE06	0.003	0.008	0.024	0.021	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.004	0.007	0.036	0.031	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE08	0.039	0.017	0.336	0.294	0.001	0.001	0.001	0.002	0.000	0.033	0.000	0.050
EE09	0.001	0.017	0.006	0.005	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE10	0.007	0.017	0.056	0.049	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.037	0.033	0.313	0.274	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EW02	0.019	0.033	0.166	0.145	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.072
EW03	0.024	0.033	0.200	0.175	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	50	0.009	0.88	0.010	
EE02	50	0.008	0.88	0.009	
EE03	50	0.001	0.88	0.002	
EE04	50	0.001	0.88	0.001	
EE05	50	0.208	0.88	0.235	
EE06	50	0.001	0.88	0.001	
EE07	50	0.001	0.88	0.001	
EE08	50	0.009	0.88	0.010	
EE09	50	0.001	0.88	0.001	
EE10	50	0.002	0.88	0.002	
EW01	50	0.009	0.88	0.010	
EW02	50	0.005	0.88	0.006	
EW03	50	0.006	0.88	0.006	
--	50	0.000	0.88	0.000	
--	50	0.000	0.88	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-97
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Green Heron exposed to Dieldrin

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	7.77	30.92	54.11	0.36	0.00	0.08	0.78	0.00	5.92	0.00	0.06
EE02	0.00	4.70	31.93	55.87	0.22	0.00	0.05	0.47	0.00	6.73	0.00	0.03
EE03	0.00	37.59	19.26	33.70	1.75	0.00	0.38	3.79	0.00	3.26	0.00	0.28
EE04	0.00	14.88	28.31	49.53	1.43	0.00	0.31	3.10	0.00	2.22	0.00	0.23
EE05	0.00	0.09	27.07	47.37	0.01	0.00	0.00	0.02	0.00	25.43	0.00	0.00
EE06	0.00	21.37	24.80	43.40	2.05	0.00	0.44	4.44	0.00	3.16	0.00	0.32
EE07	0.00	17.34	27.08	47.38	2.05	0.00	0.44	4.44	0.00	0.95	0.00	0.32
EE08	0.00	7.70	32.68	57.19	0.36	0.00	0.08	0.78	0.00	1.16	0.00	0.06
EE09	0.00	68.23	6.93	12.13	3.17	0.00	0.69	6.88	0.00	1.47	0.00	0.50
EE10	0.00	20.93	27.28	47.74	0.97	0.00	0.21	2.11	0.00	0.60	0.00	0.15
EW01	0.00	13.73	28.81	50.41	0.32	0.00	0.07	0.69	0.00	5.92	0.00	0.05
EW02	0.00	19.42	28.34	49.59	0.45	0.00	0.10	0.98	0.00	1.04	0.00	0.09
EW03	0.00	13.13	31.03	54.30	0.31	0.00	0.07	0.66	0.00	0.47	0.00	0.05
Average	0.00	18.99	26.49	46.36	1.03	0.00	0.22	2.24	0.00	4.49	0.00	0.16

**TABLE I-98
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Heptachlor**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.078	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.078	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.078	0.064	0.036	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.078	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.078	91.253	79.847	0.066	0.044	0.020	0.041	0.000	2.964	0.000	0.025
EE06	0.001	0.078	0.352	0.308	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE07	0.001	0.013	0.403	0.352	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EE08	0.003	0.042	1.097	0.960	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE09	0.000	0.042	0.025	0.022	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.007	0.042	2.510	2.196	0.066	0.044	0.020	0.041	0.000	0.026	0.000	0.025
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.016	0.20	0.082
EE02	50	0.024	0.20	0.124
EE03	50	0.005	0.20	0.026
EE04	50	0.006	0.20	0.033
EE05	50	2.237	0.20	11.469
EE06	50	0.012	0.20	0.063
EE07	50	0.012	0.20	0.062
EE08	50	0.030	0.20	0.152
EE09	50	0.003	0.20	0.017
EE10	50	0.064	0.20	0.328
EW01	50	0.015	0.20	0.078
EW02	50	0.011	0.20	0.057
EW03	50	0.016	0.20	0.084
--	50	0.000	0.20	0.000
--	50	0.000	0.20	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-99
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Heptachlor**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.001	0.078	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.078	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.078	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.078	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.078	91.253	79.847	0.066	0.044	0.020	0.041	0.000	2.964	0.000	0.025
EE06	0.001	0.078	0.352	0.308	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE07	0.001	0.013	0.403	0.352	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EE08	0.003	0.042	1.097	0.960	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE09	0.000	0.042	0.025	0.022	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.007	0.042	2.510	2.196	0.066	0.044	0.020	0.041	0.000	0.026	0.000	0.025
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.016	1.95	0.008
EE02	50	0.024	1.95	0.012
EE03	50	0.005	1.95	0.003
EE04	50	0.006	1.95	0.003
EE05	50	2.237	1.95	1.147
EE06	50	0.012	1.95	0.006
EE07	50	0.012	1.95	0.006
EE08	50	0.030	1.95	0.015
EE09	50	0.003	1.95	0.002
EE10	50	0.064	1.95	0.033
EW01	50	0.015	1.95	0.008
EW02	50	0.011	1.95	0.006
EW03	50	0.016	1.95	0.008
--	50	0.000	1.95	0.000
--	50	0.000	1.95	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-100
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Heptachlor

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	0.081	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.081	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.081	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.081	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.081	91.253	79.847	0.066	0.044	0.020	0.041	0.000	3.354	0.000	0.025
EE06	0.002	0.081	0.637	0.557	0.066	0.044	0.020	0.041	0.000	0.037	0.000	0.025
EE07	0.002	0.016	0.758	0.664	0.066	0.044	0.020	0.041	0.000	0.012	0.000	0.025
EE08	0.006	0.042	2.143	1.875	0.066	0.044	0.020	0.041	0.000	0.042	0.000	0.025
EE09	0.000	0.042	0.033	0.029	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.009	0.042	3.552	3.108	0.066	0.044	0.020	0.041	0.000	0.036	0.000	0.025
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.027	0.20	0.141
EE02	50	0.025	0.20	0.130
EE03	50	0.006	0.20	0.032
EE04	50	0.007	0.20	0.034
EE05	50	2.238	0.20	11.476
EE06	50	0.019	0.20	0.099
EE07	50	0.021	0.20	0.106
EE08	50	0.055	0.20	0.283
EE09	50	0.004	0.20	0.019
EE10	50	0.089	0.20	0.459
EW01	50	0.026	0.20	0.133
EW02	50	0.015	0.20	0.075
EW03	50	0.017	0.20	0.085
--	50	0.000	0.20	0.000
--	50	0.000	0.20	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-101
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Heptachlor**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	0.081	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.081	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.081	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.081	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.081	91.253	79.847	0.066	0.044	0.020	0.041	0.000	3.354	0.000	0.025
EE06	0.002	0.081	0.637	0.557	0.066	0.044	0.020	0.041	0.000	0.037	0.000	0.025
EE07	0.002	0.016	0.758	0.664	0.066	0.044	0.020	0.041	0.000	0.012	0.000	0.025
EE08	0.006	0.042	2.143	1.875	0.066	0.044	0.020	0.041	0.000	0.042	0.000	0.025
EE09	0.000	0.042	0.033	0.029	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.009	0.042	3.552	3.108	0.066	0.044	0.020	0.041	0.000	0.036	0.000	0.025
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.027	1.95	0.014
EE02	50	0.025	1.95	0.013
EE03	50	0.006	1.95	0.003
EE04	50	0.007	1.95	0.003
EE05	50	2.238	1.95	1.148
EE06	50	0.019	1.95	0.010
EE07	50	0.021	1.95	0.011
EE08	50	0.055	1.95	0.028
EE09	50	0.004	1.95	0.002
EE10	50	0.089	1.95	0.046
EW01	50	0.026	1.95	0.013
EW02	50	0.015	1.95	0.008
EW03	50	0.017	1.95	0.009
--	50	0.000	1.95	0.000
--	50	0.000	1.95	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-102
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Green Heron exposed to Heptachlor

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	10.75	27.90	48.82	5.44	0.00	0.56	5.61	0.00	0.91	0.00	0.01
EE02	0.00	7.13	30.57	53.49	3.61	0.00	0.37	3.73	0.00	1.09	0.00	0.01
EE03	0.00	33.44	10.94	19.15	16.92	0.00	1.75	17.47	0.00	0.31	0.00	0.03
EE04	0.00	26.98	15.87	27.77	13.65	0.00	1.41	14.09	0.00	0.21	0.00	0.02
EE05	0.00	0.08	36.15	63.27	0.04	0.00	0.00	0.04	0.00	0.42	0.00	0.00
EE06	0.00	14.12	23.48	44.60	7.14	0.00	0.74	7.37	0.00	0.54	0.00	0.01
EE07	0.00	2.46	29.74	52.05	7.29	0.00	0.75	7.52	0.00	0.17	0.00	0.01
EE08	0.00	3.11	32.86	57.50	2.95	0.00	0.30	3.05	0.00	0.23	0.00	0.00
EE09	0.00	26.99	6.52	11.42	25.66	0.00	2.65	26.49	0.00	0.24	0.00	0.04
EE10	0.00	1.44	34.73	60.78	1.37	0.00	0.14	1.41	0.00	0.13	0.00	0.00
EW01	0.00	2.46	30.64	53.61	5.72	0.00	0.59	5.90	0.00	1.07	0.00	0.01
EW02	0.00	3.37	28.99	50.74	7.82	0.00	0.81	8.08	0.00	0.18	0.00	0.01
EW03	0.00	2.30	31.35	54.87	5.33	0.00	0.55	5.51	0.00	0.08	0.00	0.01
Average	0.00	10.36	26.29	46.01	7.92	0.00	0.82	8.17	0.00	0.43	0.00	0.01

TABLE I-103
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Heptachlor epoxide

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (eg/L)
EE01	0.001	0.009	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.009	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.113	0.004	43.580	38.132	0.066	0.044	0.020	0.041	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.069	0.061	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.077	0.067	0.066	0.044	0.020	0.041	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.047	0.041	0.217	0.145	0.067	0.134	0.000	0.001	0.000	0.083
EE09	0.000	0.009	0.013	0.011	0.162	0.108	0.050	0.100	0.000	0.001	0.000	0.062
EE10	0.000	0.009	0.164	0.144	0.112	0.075	0.035	0.069	0.000	0.002	0.000	0.043
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.015	0.01	1.163
EE02	50	0.023	0.01	1.814
EE03	50	0.004	0.01	0.290
EE04	50	0.005	0.01	0.382
EE05	50	1.067	0.01	85.327
EE06	50	0.004	0.01	0.293
EE07	50	0.004	0.01	0.306
EE08	50	0.008	0.01	0.601
EE09	50	0.005	0.01	0.408
EE10	50	0.007	0.01	0.589
EW01	50	0.015	0.01	1.223
EW02	50	0.011	0.01	0.894
EW03	50	0.016	0.01	1.311
--	50	0.000	0.01	0.000
--	50	0.000	0.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptile/ Amphibian	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-104
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Heptachlor epoxide**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.009	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.009	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.113	0.004	43.580	38.132	0.066	0.044	0.020	0.041	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.069	0.061	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.077	0.067	0.066	0.044	0.020	0.041	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.047	0.041	0.217	0.145	0.067	0.134	0.000	0.001	0.000	0.083
EE09	0.000	0.009	0.013	0.011	0.162	0.108	0.050	0.100	0.000	0.001	0.000	0.062
EE10	0.000	0.009	0.164	0.144	0.112	0.075	0.035	0.069	0.000	0.002	0.000	0.043
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.015	0.02	0.830
EE02	50	0.023	0.02	1.296
EE03	50	0.004	0.02	0.207
EE04	50	0.005	0.02	0.273
EE05	50	1.067	0.02	60.948
EE06	50	0.004	0.02	0.209
EE07	50	0.004	0.02	0.218
EE08	50	0.008	0.02	0.429
EE09	50	0.005	0.02	0.291
EE10	50	0.007	0.02	0.421
EW01	50	0.015	0.02	0.874
EW02	50	0.011	0.02	0.638
EW03	50	0.016	0.02	0.937
--	50	0.000	0.02	0.000
--	50	0.000	0.02	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-105
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Heptachlor epoxide**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	0.009	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.009	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.119	0.004	45.655	39.948	0.066	0.044	0.020	0.041	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.071	0.062	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.107	0.094	0.066	0.044	0.020	0.041	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.052	0.045	0.368	0.246	0.114	0.228	0.000	0.001	0.000	0.140
EE09	0.000	0.009	0.017	0.015	0.258	0.172	0.080	0.160	0.000	0.002	0.000	0.098
EE10	0.000	0.009	0.170	0.149	0.158	0.105	0.049	0.098	0.000	0.002	0.000	0.060
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.026	0.01	2.070
EE02	50	0.024	0.01	1.892
EE03	50	0.005	0.01	0.374
EE04	50	0.005	0.01	0.392
EE05	50	1.117	0.01	89.373
EE06	50	0.004	0.01	0.297
EE07	50	0.005	0.01	0.365
EE08	50	0.012	0.01	0.953
EE09	50	0.008	0.01	0.634
EE10	50	0.009	0.01	0.705
EW01	50	0.026	0.01	2.067
EW02	50	0.015	0.01	1.175
EW03	50	0.017	0.01	1.329
--	50	0.000	0.01	0.000
--	50	0.000	0.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-106
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Heptachlor epoxide**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.003	0.009	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.009	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.119	0.004	45.655	39.948	0.066	0.044	0.020	0.041	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.071	0.062	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.107	0.094	0.066	0.044	0.020	0.041	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.052	0.045	0.368	0.246	0.114	0.228	0.000	0.001	0.000	0.140
EE09	0.000	0.009	0.017	0.015	0.258	0.172	0.080	0.160	0.000	0.002	0.000	0.098
EE10	0.000	0.009	0.170	0.149	0.158	0.105	0.049	0.098	0.000	0.002	0.000	0.060
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.026	0.02	1.478
EE02	50	0.024	0.02	1.351
EE03	50	0.005	0.02	0.267
EE04	50	0.005	0.02	0.280
EE05	50	1.117	0.02	63.838
EE06	50	0.004	0.02	0.212
EE07	50	0.005	0.02	0.260
EE08	50	0.012	0.02	0.680
EE09	50	0.008	0.02	0.453
EE10	50	0.009	0.02	0.304
EW01	50	0.026	0.02	1.476
EW02	50	0.015	0.02	0.839
EW03	50	0.017	0.02	0.949
--	50	0.000	0.02	0.000
--	50	0.000	0.02	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-107
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Green Heron exposed to Heptachlor epoxide

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	1.30	30.85	53.99	6.01	0.00	0.62	6.21	0.00	1.00	0.00	0.01
EE02	0.00	0.83	32.64	57.12	3.85	0.00	0.40	3.98	0.00	1.17	0.00	0.01
EE03	0.00	5.19	15.59	27.27	24.10	0.00	2.49	24.88	0.00	0.45	0.00	0.04
EE04	0.00	1.97	21.30	37.28	18.32	0.00	1.89	18.92	0.00	0.28	0.00	0.03
EE05	0.00	0.01	36.20	63.36	0.08	0.00	0.01	0.08	0.00	0.25	0.00	0.00
EE06	0.00	2.57	16.75	29.32	23.86	0.00	2.46	24.63	0.00	0.36	0.00	0.04
EE07	0.00	1.97	17.84	31.22	22.87	0.00	2.36	23.61	0.00	0.11	0.00	0.04
EE08	0.00	2.51	5.59	9.79	38.41	0.00	3.97	39.65	0.00	0.04	0.00	0.06
EE09	0.00	3.69	2.21	3.88	42.18	0.00	4.35	43.54	0.00	0.08	0.00	0.06
EE10	0.00	2.56	19.73	34.54	20.17	0.00	2.08	20.82	0.00	0.07	0.00	0.03
EW01	0.00	2.46	30.64	53.61	5.72	0.00	0.59	5.90	0.00	1.07	0.00	0.01
EW02	0.00	3.37	28.99	50.74	7.82	0.00	0.81	8.08	0.00	0.18	0.00	0.01
EW03	0.00	2.30	31.35	54.87	5.33	0.00	0.55	5.51	0.00	0.08	0.00	0.01
Average	0.00	2.36	22.29	39.00	16.82	0.00	1.74	17.37	0.00	0.40	0.00	0.03

**TABLE I-108
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Endosulfan Sulfate**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.009	0.017	0.385	0.337	0.010	0.006	0.006	0.011	0.000	0.088	0.000	0.050
EE02	0.016	0.017	0.657	0.375	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE03	0.001	0.017	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.011	0.000	0.050
EE04	0.002	0.008	0.089	0.078	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.002	0.008	42.465	37.157	0.010	0.006	0.006	0.011	0.000	2.126	0.000	0.050
EE06	0.001	0.008	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.001	0.007	0.059	0.052	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE08	0.001	0.017	0.037	0.032	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.010	0.009	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE10	0.003	0.017	0.126	0.110	0.010	0.006	0.006	0.011	0.000	0.100	0.000	0.050
EW01	0.010	0.033	0.406	0.355	0.010	0.006	0.006	0.011	0.000	0.012	0.000	0.050
EW02	0.007	0.033	0.282	0.247	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EW03	0.011	0.033	0.457	0.400	0.010	0.006	0.006	0.011	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	0.010	1.01	0.010
EE02	50	0.017	1.01	0.017
EE03	50	0.002	1.01	0.002
EE04	50	0.003	1.01	0.003
EE05	50	1.042	1.01	1.032
EE06	50	0.002	1.01	0.002
EE07	50	0.002	1.01	0.002
EE08	50	0.002	1.01	0.002
EE09	50	0.001	1.01	0.001
EE10	50	0.004	1.01	0.004
EW01	50	0.011	1.01	0.011
EW02	50	0.008	1.01	0.008
EW03	50	0.012	1.01	0.012
--	50	0.000	1.01	0.000
--	50	0.000	1.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-109
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Endosulfan Sulfate

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.009	0.017	0.385	0.337	0.010	0.006	0.006	0.011	0.000	0.088	0.000	0.050
EE02	0.016	0.017	0.657	0.575	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE03	0.001	0.017	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.011	0.000	0.050
EE04	0.002	0.008	0.089	0.078	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.002	0.008	42.465	37.157	0.010	0.006	0.006	0.011	0.000	2.126	0.000	0.050
EE06	0.001	0.008	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.001	0.007	0.059	0.052	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE08	0.001	0.017	0.037	0.032	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.010	0.009	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE10	0.003	0.017	0.126	0.110	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.010	0.033	0.406	0.355	0.010	0.006	0.006	0.011	0.000	0.100	0.000	0.050
EW02	0.007	0.033	0.282	0.247	0.010	0.006	0.006	0.011	0.000	0.012	0.000	0.050
EW03	0.011	0.033	0.457	0.400	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	0.010	10.10	0.001
EE02	50	0.017	10.10	0.002
EE03	50	0.002	10.10	0.000
EE04	50	0.003	10.10	0.000
EE05	50	1.042	10.10	0.103
EE06	50	0.002	10.10	0.000
EE07	50	0.002	10.10	0.000
EE08	50	0.002	10.10	0.000
EE09	50	0.001	10.10	0.000
EE10	50	0.004	10.10	0.000
EW01	50	0.011	10.10	0.001
EW02	50	0.008	10.10	0.001
EW03	50	0.012	10.10	0.001
--	50	0.000	10.10	0.000
--	50	0.000	10.10	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-110
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to Endosulfan Sulfate**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.017	0.017	0.733	0.641	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE02	0.016	0.017	0.697	0.610	0.010	0.006	0.006	0.011	0.000	0.167	0.000	0.050
EE03	0.002	0.017	0.083	0.072	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EE04	0.002	0.008	0.091	0.080	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.168	0.008	49.486	43.300	0.010	0.006	0.006	0.011	0.000	2.614	0.000	0.050
EE06	0.001	0.008	0.057	0.050	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.002	0.007	0.083	0.073	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE08	0.001	0.017	0.039	0.034	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.013	0.012	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE10	0.003	0.017	0.131	0.114	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.017	0.033	0.734	0.642	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EW02	0.009	0.033	0.388	0.340	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EW03	0.011	0.033	0.469	0.410	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
LOCATION	BASED ON UCL (or max) CONCENTRATIONS		TRV (NOAEL)	HAZARD QUOTIENT
	Area Use Factor	Applied Daily Dose		
EE01	50	0.019	1.01	0.019
EE02	50	0.018	1.01	0.018
EE03	50	0.003	1.01	0.003
EE04	50	0.003	1.01	0.003
EE05	50	1.215	1.01	1.203
EE06	50	0.002	1.01	0.002
EE07	50	0.003	1.01	0.003
EE08	50	0.002	1.01	0.002
EE09	50	0.001	1.01	0.001
EE10	50	0.004	1.01	0.004
EW01	50	0.020	1.01	0.019
EW02	50	0.011	1.01	0.011
EW03	50	0.013	1.01	0.012
--	50	0.000	1.01	0.000
--	50	0.000	1.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-111
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to Endosulfan Sulfate

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.017	0.017	0.733	0.641	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE02	0.016	0.017	0.697	0.610	0.010	0.006	0.006	0.011	0.000	0.167	0.000	0.050
EE03	0.002	0.017	0.083	0.072	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EE04	0.002	0.008	0.091	0.080	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.168	0.008	49.486	43.300	0.010	0.006	0.006	0.011	0.000	2.614	0.000	0.050
EE06	0.001	0.008	0.057	0.050	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.002	0.007	0.083	0.073	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE08	0.001	0.017	0.039	0.034	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.013	0.012	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE10	0.003	0.017	0.131	0.114	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.017	0.033	0.734	0.642	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EW02	0.009	0.033	0.388	0.340	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EW03	0.011	0.033	0.469	0.410	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
LOCATION	Area		Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
	Use Factor	Area			
EE01	50	50	0.019	10.10	0.002
EE02	50	50	0.018	10.10	0.002
EE03	50	50	0.003	10.10	0.000
EE04	50	50	0.003	10.10	0.000
EE05	50	50	1.215	10.10	0.120
EE06	50	50	0.002	10.10	0.000
EE07	50	50	0.003	10.10	0.000
EE08	50	50	0.002	10.10	0.000
EE09	50	50	0.001	10.10	0.000
EE10	50	50	0.004	10.10	0.000
EW01	50	50	0.020	10.10	0.002
EW02	50	50	0.011	10.10	0.001
EW03	50	50	0.013	10.10	0.001
--	50	50	0.000	10.10	0.000
--	50	50	0.000	10.10	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-112
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Green Heron exposed to Endosulfan Sulfate

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	3.51	32.70	57.23	1.23	0.00	0.24	2.39	0.00	2.67	0.00	0.03
EE02	0.00	2.11	33.64	58.88	0.74	0.00	0.14	1.44	0.00	3.03	0.00	0.02
EE03	0.00	17.14	22.63	39.61	6.02	0.00	1.17	11.68	0.00	1.63	0.00	0.13
EE04	0.00	6.37	28.41	49.71	4.61	0.00	0.90	8.96	0.00	0.95	0.00	0.10
EE05	0.00	0.02	36.11	63.19	0.01	0.00	0.00	0.02	0.00	0.65	0.00	0.00
EE06	0.00	9.16	24.92	43.62	6.63	0.00	1.29	12.88	0.00	1.36	0.00	0.14
EE07	0.00	7.18	26.27	45.97	6.39	0.00	1.24	12.42	0.00	0.39	0.00	0.13
EE08	0.00	21.95	19.42	33.99	7.70	0.00	1.50	14.96	0.00	0.32	0.00	0.16
EE09	0.00	35.91	8.55	14.97	12.61	0.00	2.45	24.48	0.00	0.77	0.00	0.26
EE10	0.00	9.49	28.99	50.73	3.33	0.00	0.65	6.47	0.00	0.27	0.00	0.07
EW01	0.00	6.45	31.71	55.49	1.13	0.00	0.22	2.20	0.00	2.78	0.00	0.02
EW02	0.00	9.08	31.06	54.35	1.59	0.00	0.31	3.09	0.00	0.49	0.00	0.03
EW03	0.00	5.94	32.93	57.62	1.04	0.00	0.20	2.03	0.00	0.21	0.00	0.02
Average	0.00	10.33	27.49	48.10	4.08	0.00	0.79	7.92	0.00	1.19	0.00	0.09

**TABLE I-113
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to High MW PAHs**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.013	1.320	583.185	510.287	2873.077	1915.385	195.447	390.895	0.000	12.868	0.000	10.000
EE02	0.053	1.320	2423.548	2120.605	3591.347	2394.231	244.309	488.619	0.000	92.352	0.000	12.500
EE03	0.036	1.320	1637.862	1433.129	3591.347	2394.231	244.309	488.619	0.000	31.242	0.000	12.500
EE04	0.041	5.200	1867.674	1634.214	3591.347	2394.231	244.309	488.619	0.000	16.517	0.000	12.500
EE05	0.053	5.200	2423.548	2120.605	3979.212	2652.808	270.695	541.389	0.000	27.483	0.000	13.850
EE06	0.006	5.200	289.492	253.305	4309.616	2873.077	293.171	586.342	0.000	4.123	0.000	15.000
EE07	0.008	5.200	362.349	317.055	4309.616	2873.077	293.171	586.342	0.000	1.426	0.000	15.000
EE08	0.008	5.200	350.660	306.828	4309.616	2873.077	293.171	586.342	0.000	1.527	0.000	15.000
EE09	0.001	5.200	38.125	33.360	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EE10	0.007	5.200	324.826	284.223	4309.616	2873.077	293.171	586.342	0.000	0.812	0.000	15.000
EW01	0.003	5.200	158.006	138.256	4309.616	2873.077	293.171	586.342	0.000	4.291	0.000	15.000
EW02	0.007	5.200	328.280	287.245	4309.616	2873.077	293.171	586.342	0.000	1.395	0.000	15.000
EW03	0.014	5.200	634.788	555.439	4309.616	2873.077	293.171	586.342	0.000	1.132	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	61.992	4.40	14.089
EE02	50	119.016	4.40	27.049
EE03	50	99.678	4.40	22.654
EE04	50	105.317	4.40	23.936
EE05	50	125.338	4.40	28.486
EE06	50	78.750	4.40	17.898
EE07	50	80.517	4.40	18.299
EE08	50	80.233	4.40	18.235
EE09	50	72.615	4.40	16.503
EE10	50	79.601	4.40	18.091
EW01	50	75.547	4.40	17.170
EW02	50	79.687	4.40	18.111
EW03	50	87.155	4.40	19.808
--	50	0.000	4.40	0.000
--	50	0.000	4.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-114
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to High MW PAHs

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.013	1.320	583.185	510.287	2873.077	1915.385	193.447	390.895	0.000	12.868	0.000	10.000
EE02	0.053	1.320	2423.548	2120.605	3591.347	2394.231	244.309	488.619	0.000	92.352	0.000	12.500
EE03	0.036	1.320	1637.862	1433.129	3591.347	2394.231	244.309	488.619	0.000	31.242	0.000	12.500
EE04	0.041	5.200	1867.674	1634.214	3591.347	2394.231	244.309	488.619	0.000	16.517	0.000	12.500
EE05	0.053	5.200	2423.548	2120.605	3979.212	2652.808	270.695	541.389	0.000	27.483	0.000	13.850
EE06	0.006	5.200	289.492	253.305	4309.616	2873.077	293.171	586.342	0.000	4.123	0.000	15.000
EE07	0.008	5.200	362.349	317.055	4309.616	2873.077	293.171	586.342	0.000	1.426	0.000	15.000
EE08	0.008	5.200	350.660	306.828	4309.616	2873.077	293.171	586.342	0.000	1.527	0.000	15.000
EE09	0.001	5.200	38.125	33.360	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EE10	0.007	5.200	324.826	284.223	4309.616	2873.077	293.171	586.342	0.000	0.812	0.000	15.000
EW01	0.003	5.200	158.006	138.256	4309.616	2873.077	293.171	586.342	0.000	4.291	0.000	15.000
EW02	0.007	5.200	328.280	287.245	4309.616	2873.077	293.171	586.342	0.000	1.395	0.000	15.000
EW03	0.014	5.200	634.788	555.439	4309.616	2873.077	293.171	586.342	0.000	1.132	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS						
BASED ON MEAN CONCENTRATIONS						
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT		
EE01	50	61.992	44.00	1.409		
EE02	50	119.016	44.00	2.705		
EE03	50	99.678	44.00	2.265		
EE04	50	105.317	44.00	2.394		
EE05	50	125.338	44.00	2.849		
EE06	50	78.750	44.00	1.790		
EE07	50	80.517	44.00	1.830		
EE08	50	80.233	44.00	1.823		
EE09	50	72.615	44.00	1.650		
EE10	50	79.601	44.00	1.809		
EW01	50	75.547	44.00	1.717		
EW02	50	79.687	44.00	1.811		
EW03	50	87.155	44.00	1.981		
--	50	0.000	44.00	0.000		
--	50	0.000	44.00	0.000		

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/ Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-115
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Green Heron exposed to High MW PAHs**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.023	1.320	1054.374	922.577	4309.616	2873.077	293.171	586.342	0.000	22.817	0.000	15.000
EE02	0.053	1.320	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	163.704	0.000	15.000
EE03	0.052	1.320	2363.170	2067.774	4309.616	2873.077	293.171	586.342	0.000	44.780	0.000	15.000
EE04	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	36.051	0.000	15.000
EE05	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	6.895	0.000	15.000
EE06	0.011	5.200	489.225	428.072	4309.616	2873.077	293.171	586.342	0.000	2.266	0.000	15.000
EE07	0.013	5.200	593.593	519.394	4309.616	2873.077	293.171	586.342	0.000	1.597	0.000	15.000
EE08	0.008	5.200	362.515	317.201	4309.616	2873.077	293.171	586.342	0.000	1.057	0.000	15.000
EE09	0.001	5.200	44.010	38.509	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EE10	0.008	5.200	379.876	332.392	4309.616	2873.077	293.171	586.342	0.000	4.872	0.000	15.000
EW01	0.005	5.200	225.765	197.544	4309.616	2873.077	293.171	586.342	0.000	1.455	0.000	15.000
EW02	0.007	5.200	328.834	287.730	4309.616	2873.077	293.171	586.342	0.000	2.100	0.000	15.000
EW03	0.026	5.200	1171.387	1024.964	4309.616	2873.077	293.171	586.342	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	50	97.361	4.40	22.128
EE02	50	131.170	4.40	29.811
EE03	50	129.322	4.40	29.391
EE04	50	130.823	4.40	29.732
EE05	50	130.852	4.40	29.739
EE06	50	83.626	4.40	19.006
EE07	50	86.154	4.40	19.581
EE08	50	80.522	4.40	18.300
EE09	50	72.759	4.40	16.536
EE10	50	80.943	4.40	18.396
EW01	50	77.200	4.40	17.545
EW02	50	79.700	4.40	18.114
EW03	50	100.233	4.40	22.780
--	50	0.000	4.40	0.000
--	50	0.000	4.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

**TABLE I-116
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Green Heron exposed to High MW PAHs**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (mg/L)
EE01	0.023	1.320	1054.374	922.577	4309.616	2873.077	293.171	586.342	0.000	22.817	0.000	15.000
EE02	0.053	1.320	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	163.704	0.000	15.000
EE03	0.052	1.320	2363.170	2067.774	4309.616	2873.077	293.171	586.342	0.000	44.780	0.000	15.000
EE04	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	26.792	0.000	15.000
EE05	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	36.051	0.000	15.000
EE06	0.011	5.200	489.225	428.072	4309.616	2873.077	293.171	586.342	0.000	6.895	0.000	15.000
EE07	0.013	5.200	593.593	519.394	4309.616	2873.077	293.171	586.342	0.000	2.266	0.000	15.000
EE08	0.008	5.200	362.515	317.201	4309.616	2873.077	293.171	586.342	0.000	1.597	0.000	15.000
EE09	0.001	5.200	44.010	38.509	4309.616	2873.077	293.171	586.342	0.000	1.057	0.000	15.000
EE10	0.008	5.200	379.876	332.392	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EW01	0.005	5.200	223.765	197.544	4309.616	2873.077	293.171	586.342	0.000	4.872	0.000	15.000
EW02	0.007	5.200	328.834	287.730	4309.616	2873.077	293.171	586.342	0.000	1.455	0.000	15.000
EW03	0.026	5.200	1171.387	1024.964	4309.616	2873.077	293.171	586.342	0.000	2.100	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	50	97.361	44.00	2.213
EE02	50	131.170	44.00	2.981
EE03	50	129.322	44.00	2.939
EE04	50	130.823	44.00	2.973
EE05	50	130.852	44.00	2.974
EE06	50	83.626	44.00	1.901
EE07	50	86.154	44.00	1.958
EE08	50	80.522	44.00	1.830
EE09	50	72.759	44.00	1.654
EE10	50	80.943	44.00	1.840
EW01	50	77.200	44.00	1.755
EW02	50	79.700	44.00	1.811
EW03	50	100.233	44.00	2.278
--	50	0.000	44.00	0.000
--	50	0.000	44.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.2
Food Ingestion Rate (kg/day)	0.028
Sediment Ingestion Rate (kg/day)	0.001
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.017

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	0
Crayfish	25
Other Aquatic Invertebrates	10
Terrestrial Invertebrates	20
Reptiles/Amphibians	15
Birds	0
Mammals	5
Fish	25
Other Items	0

TABLE I-117
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Green Heron exposed to High MW PAHs

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	0.05	8.34	14.59	61.60	0.00	1.40	13.97	0.00	0.07	0.00	0.00
EE02	0.00	0.02	18.04	31.58	40.11	0.00	0.91	9.09	0.00	0.25	0.00	0.00
EE03	0.00	0.03	14.56	25.48	47.89	0.00	1.09	10.86	0.00	0.10	0.00	0.00
EE04	0.00	0.11	15.71	27.50	45.32	0.00	1.03	10.28	0.00	0.05	0.00	0.00
EE05	0.00	0.09	17.13	29.98	42.20	0.00	0.96	9.57	0.00	0.07	0.00	0.00
EE06	0.00	0.15	3.26	5.70	72.74	0.00	1.65	16.49	0.00	0.02	0.00	0.00
EE07	0.00	0.14	3.99	6.98	71.14	0.00	1.61	16.13	0.00	0.01	0.00	0.00
EE08	0.00	0.14	3.87	6.78	71.39	0.00	1.62	16.19	0.00	0.01	0.00	0.00
EE09	0.00	0.16	0.47	0.81	78.88	0.00	1.79	17.89	0.00	0.00	0.00	0.00
EE10	0.00	0.14	3.62	6.33	71.96	0.00	1.63	16.32	0.00	0.00	0.00	0.00
EW01	0.00	0.15	1.85	3.24	75.82	0.00	1.72	17.19	0.00	0.02	0.00	0.00
EW02	0.00	0.14	3.65	6.39	71.88	0.00	1.63	16.30	0.00	0.01	0.00	0.00
EW03	0.00	0.13	6.45	11.29	65.72	0.00	1.49	14.90	0.00	0.00	0.00	0.00
Average	0.00	0.11	7.76	13.59	62.82	0.00	1.42	14.24	0.00	0.05	0.00	0.00

TABLE I-118
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Antimony

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	4,859	0.000	30,000
EE02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	10,476	0.000	30,000
EE03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	4,487	0.000	30,000
EE04	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2,994	0.000	30,000
EE05	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,850	0.000	30,000
EE06	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,011	0.000	30,000
EE07	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,024	0.000	30,000
EE08	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2,999	0.000	30,000
EE09	11,250	3,000	600,000	600,000	0.128	0.128	0.128	0.128	0.000	2,995	0.000	37,500
EE10	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,014	0.000	30,000
EW01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,002	0.000	30,000
EW02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2,997	0.000	30,000
EW03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2,993	0.000	30,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	30,065	13.40	2.244
EE02	100	30,065	13.40	2.244
EE03	100	30,065	13.40	2.244
EE04	100	30,065	13.40	2.244
EE05	100	30,065	13.40	2.244
EE06	100	30,065	13.40	2.244
EE07	100	30,065	13.40	2.244
EE08	100	30,065	13.40	2.244
EE09	100	37,581	13.40	2.805
EE10	100	30,065	13.40	2.244
EW01	100	30,065	13.40	2.244
EW02	100	30,065	13.40	2.244
EW03	100	30,065	13.40	2.244
Unused	100	0.000	13.40	0.000
Unused	100	0.000	13.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-119
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Antimony

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	4.859	0.000	30.000
EE02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	10.476	0.000	30.000
EE03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	4.487	0.000	30.000
EE04	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.994	0.000	30.000
EE05	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.850	0.000	30.000
EE06	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.011	0.000	30.000
EE07	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.024	0.000	30.000
EE08	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.999	0.000	30.000
EE09	11.250	3.000	600.000	600.000	0.128	0.128	0.128	0.128	0.000	2.995	0.000	37.500
EE10	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.014	0.000	30.000
EW01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.002	0.000	30.000
EW02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.997	0.000	30.000
EW03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.993	0.000	30.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	30.065	133.80	0.225
EE02	100	30.065	133.80	0.225
EE03	100	30.065	133.80	0.225
EE04	100	30.065	133.80	0.225
EE05	100	30.065	133.80	0.225
EE06	100	30.065	133.80	0.225
EE07	100	30.065	133.80	0.225
EE08	100	30.065	133.80	0.225
EE09	100	37.581	133.80	0.281
EE10	100	30.065	133.80	0.225
EW01	100	30.065	133.80	0.225
EW02	100	30.065	133.80	0.225
EW03	100	30.065	133.80	0.225
Unused	100	0.000	133.80	0.000
Unused	100	0.000	133.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-120
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Antimony

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	6.018	0.000	30,000
EE02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	14.910	0.000	30,000
EE03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	5.964	0.000	30,000
EE04	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.000	0.000	30,000
EE05	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	5.694	0.000	30,000
EE06	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.014	0.000	30,000
EE07	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.030	0.000	30,000
EE08	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.002	0.000	30,000
EE09	13,500	3,000	720,000	720,000	0.153	0.153	0.153	0.153	0.000	2.997	0.000	45,000
EE10	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.024	0.000	30,000
EW01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.003	0.000	30,000
EW02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.000	0.000	30,000
EW03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2.993	0.000	30,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	100	30.065	13.40	2.244	
EE02	100	30.065	13.40	2.244	
EE03	100	30.065	13.40	2.244	
EE04	100	30.065	13.40	2.244	
EE05	100	30.065	13.40	2.244	
EE06	100	30.065	13.40	2.244	
EE07	100	30.065	13.40	2.244	
EE08	100	30.065	13.40	2.244	
EE09	100	45.097	13.40	3.365	
EE10	100	30.065	13.40	2.244	
EW01	100	30.065	13.40	2.244	
EW02	100	30.065	13.40	2.244	
EW03	100	30.065	13.40	2.244	
Unused	100	0.000	13.40	0.000	
Unused	100	0.000	13.40	0.000	

TABLE I-121
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Antimony

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	6.018	0.000	30.000
EE02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	14.910	0.000	30.000
EE03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	5.964	0.000	30.000
EE04	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.000	0.000	30.000
EE05	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	5.694	0.000	30.000
EE06	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.014	0.000	30.000
EE07	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.030	0.000	30.000
EE08	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.002	0.000	30.000
EE09	13.500	3.000	720.000	720.000	0.153	0.153	0.153	0.153	0.000	2.997	0.000	45.000
EE10	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.024	0.000	30.000
EW01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.003	0.000	30.000
EW02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.000	0.000	30.000
EW03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.993	0.000	30.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	30.065	133.80	0.225
EE02	100	30.065	133.80	0.225
EE03	100	30.065	133.80	0.225
EE04	100	30.065	133.80	0.225
EE05	100	30.065	133.80	0.225
EE06	100	30.065	133.80	0.225
EE07	100	30.065	133.80	0.225
EE08	100	30.065	133.80	0.225
EE09	100	45.097	133.80	0.337
EE10	100	30.065	133.80	0.225
EW01	100	30.065	133.80	0.225
EW02	100	30.065	133.80	0.225
EW03	100	30.065	133.80	0.225
Unused	100	0.000	133.80	0.000
Unused	100	0.000	133.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-122
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Antimony

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE02	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE03	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE04	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE05	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE06	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE07	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE08	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE09	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE10	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EW01	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EW02	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EW03	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Average	4.19	0.00	0.00	95.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02

TABLE I-123
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Arsenic

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.581	0.000	2.500
EE02	0.799	0.520	0.149	0.149	0.004	0.004	0.004	0.004	0.000	3.768	0.000	2.400
EE03	1.215	0.520	0.226	0.226	0.007	0.007	0.007	0.007	0.000	1.103	0.000	3.650
EE04	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	1.104	0.000	3.750
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.558	0.000	5.000
EE06	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	2.447	0.000	3.750
EE07	0.450	0.720	0.084	0.084	0.002	0.002	0.002	0.002	0.000	0.482	0.000	1.350
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.235	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.663	0.000	2.500
EE10	38.711	0.720	7.208	7.208	0.209	0.209	0.209	0.209	0.000	2.016	0.000	116.250
EW01	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.461	0.000	2.050
EW02	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.488	0.000	2.050
EW03	0.716	0.500	0.133	0.133	0.004	0.004	0.004	0.004	0.000	2.914	0.000	2.150
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.126	4.70	0.027
EE02	100	0.121	4.70	0.026
EE03	100	0.184	4.70	0.039
EE04	100	0.189	4.70	0.040
EE05	100	0.253	4.70	0.054
EE06	100	0.189	4.70	0.040
EE07	100	0.068	4.70	0.015
EE08	100	0.126	4.70	0.027
EE09	100	0.126	4.70	0.027
EE10	100	5.871	4.70	1.249
EW01	100	0.104	4.70	0.022
EW02	100	0.104	4.70	0.022
EW03	100	0.109	4.70	0.023
Unused	100	0.000	4.70	0.000
Unused	100	0.000	4.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-124
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Arsenic

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.581	0.000	2.500
EE02	0.799	0.520	0.149	0.149	0.004	0.004	0.004	0.004	0.000	3.768	0.000	2.400
EE03	1.215	0.520	0.226	0.226	0.007	0.007	0.007	0.007	0.000	1.103	0.000	3.650
EE04	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	1.104	0.000	3.750
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.558	0.000	5.000
EE06	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	2.447	0.000	3.750
EE07	0.450	0.720	0.084	0.084	0.002	0.002	0.002	0.002	0.000	0.482	0.000	1.350
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.235	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.663	0.000	2.500
EE10	38.711	0.720	7.208	7.208	0.209	0.209	0.209	0.209	0.000	2.016	0.000	116.250
EW01	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.461	0.000	2.050
EW02	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.488	0.000	2.050
EW03	0.716	0.500	0.133	0.133	0.004	0.004	0.004	0.004	0.000	2.914	0.000	2.150
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.126	4.70	0.027
EE02	100	0.121	4.70	0.026
EE03	100	0.184	4.70	0.039
EE04	100	0.189	4.70	0.040
EE05	100	0.253	4.70	0.054
EE06	100	0.189	4.70	0.040
EE07	100	0.068	4.70	0.015
EE08	100	0.126	4.70	0.027
EE09	100	0.126	4.70	0.027
EE10	100	5.871	4.70	1.249
EW01	100	0.104	4.70	0.022
EW02	100	0.104	4.70	0.022
EW03	100	0.109	4.70	0.023
Unused	100	0.000	4.70	0.000
Unused	100	0.000	4.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-125
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Arsenic

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	2.000	0.000	2.500
EE02	1.232	0.520	0.229	0.229	0.007	0.007	0.007	0.007	0.000	6.612	0.000	3.700
EE03	1.665	0.520	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.260	0.000	5.000
EE04	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.328	0.000	5.000
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	3.010	0.000	5.000
EE06	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.684	0.000	5.000
EE07	0.566	0.720	0.105	0.105	0.003	0.003	0.003	0.003	0.000	0.682	0.000	1.700
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.296	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.891	0.000	2.500
EE10	76.590	0.720	14.260	14.260	0.414	0.414	0.414	0.414	0.000	2.184	0.000	230.000
EW01	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.722	0.000	2.500
EW02	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.500	0.000	2.500
EW03	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	5.104	0.000	2.500
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
LOCATION	BASED ON UCL (or max) CONCENTRATIONS		TRV	HAZARD QUOTIENT
	Area Use Factor	Applied Daily Dose		
EE01	100	0.126	4.70	0.027
EE02	100	0.187	4.70	0.040
EE03	100	0.247	4.70	0.053
EE04	100	0.248	4.70	0.053
EE05	100	0.253	4.70	0.054
EE06	100	0.248	4.70	0.053
EE07	100	0.084	4.70	0.018
EE08	100	0.126	4.70	0.027
EE09	100	0.126	4.70	0.027
EE10	100	11.174	4.70	2.377
EW01	100	0.125	4.70	0.026
EW02	100	0.125	4.70	0.026
EW03	100	0.125	4.70	0.027
Unused	100	0.000	4.70	0.000
Unused	100	0.000	4.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-126
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Arsenic**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	2.000	0.000	2.500
EE02	1.232	0.520	0.229	0.229	0.007	0.007	0.007	0.007	0.000	6.612	0.000	3.700
EE03	1.665	0.520	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.260	0.000	5.000
EE04	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.328	0.000	5.000
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	3.010	0.000	5.000
EE06	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.684	0.000	5.000
EE07	0.566	0.720	0.105	0.105	0.003	0.003	0.003	0.003	0.000	0.682	0.000	1.700
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.296	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.891	0.000	2.500
EE10	76.590	0.720	14.260	14.260	0.414	0.414	0.414	0.414	0.000	2.184	0.000	230.000
EW01	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.722	0.000	2.500
EW02	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.500	0.000	2.500
EW03	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	5.104	0.000	2.500
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.126	4.70	0.027
EE02	100	0.187	4.70	0.040
EE03	100	0.247	4.70	0.053
EE04	100	0.248	4.70	0.053
EE05	100	0.253	4.70	0.054
EE06	100	0.248	4.70	0.053
EE07	100	0.084	4.70	0.018
EE08	100	0.126	4.70	0.027
EE09	100	0.126	4.70	0.027
EE10	100	11.174	4.70	2.377
EW01	100	0.125	4.70	0.026
EW02	100	0.125	4.70	0.026
EW03	100	0.125	4.70	0.027
Unused	100	0.000	4.70	0.000
Unused	100	0.000	4.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-127
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Arsenic

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EE02	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EE03	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EE04	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EE05	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EE06	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EE07	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EE08	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EE09	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EE10	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EW01	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EW02	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EW03	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
Average	92.32	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32

**TABLE I-128
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Cadmium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1.170	2.200	1.350	1.350	0.043	0.043	0.043	0.043	0.000	1.722	0.000	1.390
EE02	1.394	2.200	1.607	1.607	0.051	0.051	0.051	0.051	0.000	0.877	0.000	1.655
EE03	1.402	2.200	1.617	1.617	0.051	0.051	0.051	0.051	0.000	3.385	0.000	1.665
EE04	0.278	6.900	0.320	0.320	0.010	0.010	0.010	0.010	0.000	2.685	0.000	0.330
EE05	6.989	6.900	8.059	8.059	0.256	0.256	0.256	0.256	0.000	124.630	0.000	8.300
EE06	0.741	6.900	0.854	0.854	0.027	0.027	0.027	0.027	0.000	45.100	0.000	0.880
EE07	0.800	1.700	0.922	0.922	0.029	0.029	0.029	0.029	0.000	4.038	0.000	0.950
EE08	0.720	3.500	0.830	0.830	0.026	0.026	0.026	0.026	0.000	13.581	0.000	0.855
EE09	0.741	4.600	0.854	0.854	0.027	0.027	0.027	0.027	0.000	22.333	0.000	0.880
EE10	0.770	4.600	0.888	0.888	0.028	0.028	0.028	0.028	0.000	11.133	0.000	0.915
EW01	0.265	2.630	0.306	0.306	0.010	0.010	0.010	0.010	0.000	15.843	0.000	0.315
EW02	1.162	2.630	1.340	1.340	0.043	0.043	0.043	0.043	0.000	2.949	0.000	1.380
EW03	0.532	2.630	0.636	0.636	0.020	0.020	0.020	0.020	0.000	1.049	0.000	0.655
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.245	0.78	0.314
EE02	100	0.292	0.78	0.374
EE03	100	0.294	0.78	0.376
EE04	100	0.058	0.78	0.075
EE05	100	1.463	0.78	1.876
EE06	100	0.155	0.78	0.199
EE07	100	0.167	0.78	0.215
EE08	100	0.151	0.78	0.193
EE09	100	0.155	0.78	0.199
EE10	100	0.161	0.78	0.207
EW01	100	0.056	0.78	0.071
EW02	100	0.243	0.78	0.312
EW03	100	0.115	0.78	0.148
Unused	100	0.000	0.78	0.000
Unused	100	0.000	0.78	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-129
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Cadmium

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1.170	2.200	1.350	1.350	0.943	0.043	0.043	0.043	0.000	1.722	0.000	1.390
EE02	1.394	2.200	1.607	1.607	0.051	0.051	0.051	0.051	0.000	0.877	0.000	1.655
EE03	1.402	2.200	1.617	1.617	0.051	0.051	0.051	0.051	0.000	3.385	0.000	1.665
EE04	0.278	6.900	0.320	0.320	0.010	0.010	0.010	0.010	0.000	2.685	0.000	0.330
EE05	6.989	6.900	8.059	8.059	0.256	0.256	0.256	0.256	0.000	124.630	0.000	8.300
EE06	0.741	6.900	0.854	0.854	0.027	0.027	0.027	0.027	0.000	45.100	0.000	0.880
EE07	0.800	1.700	0.922	0.922	0.029	0.029	0.029	0.029	0.000	4.038	0.000	0.950
EE08	0.720	3.500	0.830	0.830	0.026	0.026	0.026	0.026	0.000	13.581	0.000	0.855
EE09	0.741	4.600	0.854	0.854	0.027	0.027	0.027	0.027	0.000	22.333	0.000	0.880
EE10	0.770	4.600	0.888	0.888	0.028	0.028	0.028	0.028	0.000	11.133	0.000	0.915
EW01	0.265	2.630	0.306	0.306	0.010	0.010	0.010	0.010	0.000	15.843	0.000	0.315
EW02	1.162	2.630	1.340	1.340	0.043	0.043	0.043	0.043	0.000	2.949	0.000	1.380
EW03	0.552	2.630	0.636	0.636	0.020	0.020	0.020	0.020	0.000	1.049	0.000	0.655
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.245	7.80	0.031
EE02	100	0.292	7.80	0.037
EE03	100	0.294	7.80	0.038
EE04	100	0.058	7.80	0.007
EE05	100	1.463	7.80	0.188
EE06	100	0.155	7.80	0.020
EE07	100	0.167	7.80	0.021
EE08	100	0.151	7.80	0.019
EE09	100	0.155	7.80	0.020
EE10	100	0.161	7.80	0.021
EW01	100	0.056	7.80	0.007
EW02	100	0.243	7.80	0.031
EW03	100	0.115	7.80	0.015
Unused	100	0.000	7.80	0.000
Unused	100	0.000	7.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-130
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Cadmium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.743	0.000	2.500
EE02	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.260	0.000	2.500
EE03	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	4.620	0.000	2.500
EE04	0.303	8.000	0.350	0.350	0.011	0.011	0.011	0.011	0.000	2.880	0.000	0.360
EE05	8.252	8.000	9.516	9.516	0.302	0.302	0.302	0.302	0.000	160.680	0.000	9.800
EE06	0.926	8.000	1.068	1.068	0.034	0.034	0.034	0.034	0.000	69.520	0.000	1.100
EE07	1.010	2.300	1.165	1.165	0.037	0.037	0.037	0.037	0.000	5.751	0.000	1.200
EE08	0.842	3.500	0.971	0.971	0.031	0.031	0.031	0.031	0.000	18.468	0.000	1.000
EE09	0.842	4.800	0.971	0.971	0.031	0.031	0.031	0.031	0.000	22.796	0.000	1.000
EE10	0.926	4.800	1.068	1.068	0.034	0.034	0.034	0.034	0.000	20.670	0.000	1.100
EW01	0.303	3.300	0.350	0.350	0.011	0.011	0.011	0.011	0.000	27.846	0.000	0.360
EW02	2.021	3.300	2.330	2.330	0.074	0.074	0.074	0.074	0.000	3.198	0.000	2.400
EW03	0.842	3.400	0.971	0.971	0.031	0.031	0.031	0.031	0.000	1.848	0.000	1.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
LOCATION	BASED ON UCL (or max) CONCENTRATIONS		TRV (NOAEL)	HAZARD QUOTIENT
	Area Use Factor	Applied Daily Dose		
EE01	100	0.441	0.78	0.565
EE02	100	0.441	0.78	0.565
EE03	100	0.441	0.78	0.565
EE04	100	0.063	0.78	0.081
EE05	100	1.728	0.78	2.215
EE06	100	0.194	0.78	0.249
EE07	100	0.212	0.78	0.271
EE08	100	0.176	0.78	0.226
EE09	100	0.176	0.78	0.226
EE10	100	0.194	0.78	0.249
EW01	100	0.063	0.78	0.081
EW02	100	0.423	0.78	0.542
EW03	100	0.176	0.78	0.226
Unused	100	0.000	0.78	0.000
Unused	100	0.000	0.78	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-131
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Cadmium

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.743	0.000	2.500
EE02	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.260	0.000	2.500
EE03	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	4.620	0.000	2.500
EE04	0.303	8.000	0.350	0.350	0.011	0.011	0.011	0.011	0.000	2.880	0.000	0.360
EE05	8.252	8.000	9.516	9.516	0.302	0.302	0.302	0.302	0.000	160.680	0.000	9.800
EE06	0.926	8.000	1.068	1.068	0.034	0.034	0.034	0.034	0.000	69.520	0.000	1.100
EE07	1.010	2.300	1.165	1.165	0.037	0.037	0.037	0.037	0.000	5.751	0.000	1.200
EE08	0.842	3.500	0.971	0.971	0.031	0.031	0.031	0.031	0.000	18.468	0.000	1.000
EE09	0.842	4.800	0.971	0.971	0.031	0.031	0.031	0.031	0.000	22.796	0.000	1.000
EE10	0.926	4.800	1.068	1.068	0.034	0.034	0.034	0.034	0.000	20.670	0.000	1.100
EW01	0.303	3.300	0.350	0.350	0.011	0.011	0.011	0.011	0.000	27.846	0.000	0.360
EW02	2.021	3.300	2.330	2.330	0.074	0.074	0.074	0.074	0.000	3.198	0.000	2.400
EW03	0.842	3.400	0.971	0.971	0.031	0.031	0.031	0.031	0.000	1.848	0.000	1.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.441	7.80	0.057
EE02	100	0.441	7.80	0.057
EE03	100	0.441	7.80	0.057
EE04	100	0.063	7.80	0.008
EE05	100	1.728	7.80	0.222
EE06	100	0.194	7.80	0.025
EE07	100	0.212	7.80	0.027
EE08	100	0.176	7.80	0.023
EE09	100	0.176	7.80	0.023
EE10	100	0.194	7.80	0.025
EW01	100	0.063	7.80	0.008
EW02	100	0.423	7.80	0.054
EW03	100	0.176	7.80	0.023
Unused	100	0.000	7.80	0.000
Unused	100	0.000	7.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-132
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Red-Winged Blackbird exposed to Cadmium

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
EE02	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
EE03	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
EE04	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
EE05	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
EE06	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
EE07	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
EE08	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
EE09	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
EE10	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
EW01	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
EW02	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
EW03	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
Average	66.86	0.00	0.00	33.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09

TABLE I-133
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Chromium

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	20,000	2,730	10,000	10,000	1,000	1,000	1,000	1,000	0,000	12,068	0,000	5,000
EE02	41,000	2,730	20,500	20,500	2,050	2,050	2,050	2,050	0,000	42,602	0,000	10,250
EE03	27,200	2,730	13,600	13,600	1,360	1,360	1,360	1,360	0,000	25,580	0,000	6,800
EE04	22,600	2,870	11,300	11,300	1,130	1,130	1,130	1,130	0,000	58,514	0,000	5,650
EE05	54,000	2,870	27,000	27,000	2,700	2,700	2,700	2,700	0,000	537,640	0,000	13,500
EE06	20,000	2,870	10,000	10,000	1,000	1,000	1,000	1,000	0,000	345,050	0,000	5,000
EE07	22,200	3,800	11,100	11,100	1,110	1,110	1,110	1,110	0,000	52,200	0,000	5,550
EE08	126,000	4,900	63,000	63,000	6,300	6,300	6,300	6,300	0,000	88,589	0,000	31,500
EE09	90,000	3,670	45,000	45,000	4,500	4,500	4,500	4,500	0,000	186,945	0,000	22,500
EE10	54,000	3,670	27,000	27,000	2,700	2,700	2,700	2,700	0,000	109,254	0,000	13,500
EW01	20,000	1,560	10,000	10,000	1,000	1,000	1,000	1,000	0,000	158,210	0,000	5,000
EW02	23,200	1,560	11,600	11,600	1,160	1,160	1,160	1,160	0,000	54,100	0,000	5,800
EW03	20,000	1,357	10,000	10,000	1,000	1,000	1,000	1,000	0,000	29,494	0,000	5,000
Unused	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Unused	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	3,401	0.27	12,596
EE02	100	6,972	0.27	25,821
EE03	100	4,625	0.27	17,130
EE04	100	3,843	0.27	14,233
EE05	100	9,182	0.27	34,008
EE06	100	3,401	0.27	12,596
EE07	100	3,775	0.27	13,981
EE08	100	21,425	0.27	79,352
EE09	100	15,304	0.27	56,680
EE10	100	9,182	0.27	34,008
EW01	100	3,401	0.27	12,596
EW02	100	3,945	0.27	14,611
EW03	100	3,401	0.27	12,596
Unused	100	0,000	0.27	0,000
Unused	100	0,000	0.27	0,000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

**TABLE I-134
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Chromium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	20,000	2,730	10,000	10,000	1,000	1,000	1,000	1,000	0,000	12,068	0,000	5,000
EE02	41,000	2,730	20,500	20,500	2,050	2,050	2,050	2,050	0,000	42,602	0,000	10,250
EE03	27,200	2,730	13,600	13,600	1,360	1,360	1,360	1,360	0,000	25,580	0,000	6,800
EE04	22,600	2,870	11,300	11,300	1,130	1,130	1,130	1,130	0,000	58,514	0,000	5,650
EE05	54,000	2,870	27,000	27,000	2,700	2,700	2,700	2,700	0,000	537,640	0,000	13,500
EE06	20,000	2,870	10,000	10,000	1,000	1,000	1,000	1,000	0,000	345,050	0,000	5,000
EE07	22,200	3,800	11,100	11,100	1,110	1,110	1,110	1,110	0,000	52,200	0,000	5,550
EE08	126,000	4,900	63,000	63,000	6,300	6,300	6,300	6,300	0,000	88,589	0,000	31,500
EE09	90,000	3,670	45,000	45,000	4,500	4,500	4,500	4,500	0,000	186,945	0,000	22,500
EE10	54,000	3,670	27,000	27,000	2,700	2,700	2,700	2,700	0,000	109,254	0,000	13,500
EW01	20,000	1,560	10,000	10,000	1,000	1,000	1,000	1,000	0,000	158,210	0,000	5,000
EW02	23,200	1,560	11,600	11,600	1,160	1,160	1,160	1,160	0,000	54,100	0,000	5,800
EW03	20,000	1,357	10,000	10,000	1,000	1,000	1,000	1,000	0,000	29,494	0,000	5,000
Unused	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Unused	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	3,401	2,70	1,260
EE02	100	6,972	2,70	2,582
EE03	100	4,625	2,70	1,713
EE04	100	3,843	2,70	1,423
EE05	100	9,182	2,70	3,401
EE06	100	3,401	2,70	1,260
EE07	100	3,775	2,70	1,398
EE08	100	21,425	2,70	7,935
EE09	100	15,304	2,70	5,668
EE10	100	9,182	2,70	3,401
EW01	100	3,401	2,70	1,260
EW02	100	3,945	2,70	1,461
EW03	100	3,401	2,70	1,260
Unused	100	0,000	2,70	0,000
Unused	100	0,000	2,70	0,000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-135
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Chromium

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	20,000	3,100	10,000	10,000	1,000	1,000	1,000	1,000	0.000	16,500	0.000	5,000
EE02	48,000	3,100	24,000	24,000	2,400	2,400	2,400	2,400	0.000	64,372	0.000	12,000
EE03	34,400	3,100	17,200	17,200	1,720	1,720	1,720	1,720	0.000	25,704	0.000	8,600
EE04	25,200	3,600	12,600	12,600	1,260	1,260	1,260	1,260	0.000	86,400	0.000	6,300
EE05	88,000	3,600	44,000	44,000	4,400	4,400	4,400	4,400	0.000	584,220	0.000	22,000
EE06	20,000	3,600	10,000	10,000	1,000	1,000	1,000	1,000	0.000	563,200	0.000	5,000
EE07	24,400	4,100	12,200	12,200	1,220	1,220	1,220	1,220	0.000	89,460	0.000	6,100
EE08	168,000	4,900	84,000	84,000	8,400	8,400	8,400	8,400	0.000	146,610	0.000	42,000
EE09	132,000	4,000	66,000	66,000	6,600	6,600	6,600	6,600	0.000	238,620	0.000	33,000
EE10	64,000	4,000	32,000	32,000	3,200	3,200	3,200	3,200	0.000	202,800	0.000	16,000
EW01	20,000	2,700	10,000	10,000	1,000	1,000	1,000	1,000	0.000	272,580	0.000	5,000
EW02	26,400	2,700	13,200	13,200	1,320	1,320	1,320	1,320	0.000	70,725	0.000	6,600
EW03	20,000	2,300	10,000	10,000	1,000	1,000	1,000	1,000	0.000	33,292	0.000	5,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	3.401	0.27	12.596
EE02	100	8.162	0.27	30.229
EE03	100	5.849	0.27	21.664
EE04	100	4.285	0.27	15.870
EE05	100	14.964	0.27	55.420
EE06	100	3.401	0.27	12.596
EE07	100	4.149	0.27	15.367
EE08	100	28.567	0.27	105.803
EE09	100	22.445	0.27	83.131
EE10	100	10.883	0.27	40.306
EW01	100	3.401	0.27	12.596
EW02	100	4.489	0.27	16.626
EW03	100	3.401	0.27	12.596
Unused	100	0.000	0.27	0.000
Unused	100	0.000	0.27	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-136
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Chromium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	20.000	3.100	10.000	10.000	1.000	1.000	1.000	1.000	0.000	16.500	0.000	5.000
EE02	48.000	3.100	24.000	24.000	2.400	2.400	2.400	2.400	0.000	64.372	0.000	12.000
EE03	34.400	3.100	17.200	17.200	1.720	1.720	1.720	1.720	0.000	25.704	0.000	8.600
EE04	24.200	3.600	12.600	12.600	1.260	1.260	1.260	1.260	0.000	86.400	0.000	6.300
EE05	88.000	3.600	44.000	44.000	4.400	4.400	4.400	4.400	0.000	584.220	0.000	22.000
EE06	20.000	3.600	10.000	10.000	1.000	1.000	1.000	1.000	0.000	563.200	0.000	5.000
EE07	24.400	4.100	12.200	12.200	1.220	1.220	1.220	1.220	0.000	89.460	0.000	6.100
EE08	168.000	4.900	84.000	84.000	8.400	8.400	8.400	8.400	0.000	146.610	0.000	42.000
EE09	132.000	4.000	66.000	66.000	6.600	6.600	6.600	6.600	0.000	238.620	0.000	33.000
EE10	64.000	4.000	32.000	32.000	3.200	3.200	3.200	3.200	0.000	202.800	0.000	16.000
EW01	20.000	2.700	10.000	10.000	1.000	1.000	1.000	1.000	0.000	272.580	0.000	5.000
EW02	26.400	2.700	13.200	13.200	1.320	1.320	1.320	1.320	0.000	70.725	0.000	6.600
EW03	20.000	2.300	10.000	10.000	1.000	1.000	1.000	1.000	0.000	33.292	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	3.401	2.70	1.260
EE02	100	8.162	2.70	3.023
EE03	100	5.849	2.70	2.166
EE04	100	4.285	2.70	1.587
EE05	100	14.964	2.70	5.542
EE06	100	3.401	2.70	1.260
EE07	100	4.149	2.70	1.537
EE08	100	28.567	2.70	10.580
EE09	100	22.445	2.70	8.313
EE10	100	10.883	2.70	4.031
EW01	100	3.401	2.70	1.260
EW02	100	4.489	2.70	1.663
EW03	100	3.401	2.70	1.260
Unused	100	0.000	2.70	0.000
Unused	100	0.000	2.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-137
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Chromium

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE02	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE03	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE04	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE05	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE06	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE07	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE08	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE09	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE10	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EW01	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EW02	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EW03	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Average	82.33	0.00	0.00	17.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02

**TABLE I-138
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Cobalt**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.748	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.683	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.321	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.750	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.454	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	7.361	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.344	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.420	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.954	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.945	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	35.860	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.351	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.266	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.343	0.24	1.428
EE02	100	0.343	0.24	1.428
EE03	100	0.343	0.24	1.428
EE04	100	0.343	0.24	1.428
EE05	100	0.343	0.24	1.428
EE06	100	0.343	0.24	1.428
EE07	100	0.343	0.24	1.428
EE08	100	0.343	0.24	1.428
EE09	100	0.343	0.24	1.428
EE10	100	0.343	0.24	1.428
EW01	100	0.343	0.24	1.428
EW02	100	0.343	0.24	1.428
EW03	100	0.343	0.24	1.428
Unused	100	0.000	0.24	0.000
Unused	100	0.000	0.24	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-139
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Cobalt

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.748	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.683	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.321	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.750	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.454	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	7.361	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.344	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.420	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.954	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.945	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	35.860	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.351	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.266	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.343	2.40	0.143
EE02	100	0.343	2.40	0.143
EE03	100	0.343	2.40	0.143
EE04	100	0.343	2.40	0.143
EE05	100	0.343	2.40	0.143
EE06	100	0.343	2.40	0.143
EE07	100	0.343	2.40	0.143
EE08	100	0.343	2.40	0.143
EE09	100	0.343	2.40	0.143
EE10	100	0.343	2.40	0.143
EW01	100	0.343	2.40	0.143
EW02	100	0.343	2.40	0.143
EW03	100	0.343	2.40	0.143
Unused	100	0.000	2.40	0.000
Unused	100	0.000	2.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-140
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Cobalt

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.500	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.888	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.634	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.840	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.630	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	8.800	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	5.609	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.519	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.100	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.446	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	56.280	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.750	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.072	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.343	0.24	1.428
EE02	100	0.343	0.24	1.428
EE03	100	0.343	0.24	1.428
EE04	100	0.343	0.24	1.428
EE05	100	0.343	0.24	1.428
EE06	100	0.343	0.24	1.428
EE07	100	0.343	0.24	1.428
EE08	100	0.343	0.24	1.428
EE09	100	0.343	0.24	1.428
EE10	100	0.343	0.24	1.428
EW01	100	0.343	0.24	1.428
EW02	100	0.343	0.24	1.428
EW03	100	0.343	0.24	1.428
Unused	100	0.000	0.24	0.000
Unused	100	0.000	0.24	0.000

TABLE I-141
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Cobalt

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.500	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.888	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.634	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.840	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.630	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	8.800	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	5.609	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.519	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.100	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.446	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	56.280	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.750	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.072	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	100	0.343	2.40	0.143	
EE02	100	0.343	2.40	0.143	
EE03	100	0.343	2.40	0.143	
EE04	100	0.343	2.40	0.143	
EE05	100	0.343	2.40	0.143	
EE06	100	0.343	2.40	0.143	
EE07	100	0.343	2.40	0.143	
EE08	100	0.343	2.40	0.143	
EE09	100	0.343	2.40	0.143	
EE10	100	0.343	2.40	0.143	
EW01	100	0.343	2.40	0.143	
EW02	100	0.343	2.40	0.143	
EW03	100	0.343	2.40	0.143	
Unused	100	0.000	2.40	0.000	
Unused	100	0.000	2.40	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-142
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Red-Winged Blackbird exposed to Cobalt

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EE02	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EE03	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EE04	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EE05	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EE06	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EE07	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EE08	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EE09	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EE10	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EW01	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EW02	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EW03	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
Average	12.25	0.00	0.00	87.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23

**TABLE I-143
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Cyanide**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.000	0.250	0.000	0.000	0.008	0.008	0.008	0.008	0.000	0.127	0.000	2.503
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	2.848	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.000	0.09	0.004
EE02	100	0.001	0.09	0.009
EE03	100	0.001	0.09	0.009
EE04	100	0.001	0.09	0.009
EE05	100	0.001	0.09	0.009
EE06	100	0.001	0.09	0.009
EE07	100	0.001	0.09	0.009
EE08	100	0.001	0.09	0.009
EE09	100	0.001	0.09	0.009
EE10	100	0.001	0.09	0.009
EW01	100	0.001	0.09	0.009
EW02	100	0.001	0.09	0.009
EW03	100	0.001	0.09	0.009
Unused	100	0.000	0.09	0.000
Unused	100	0.000	0.09	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-144
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Cyanide

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.000	0.250	0.000	0.000	0.008	0.008	0.008	0.008	0.000	0.127	0.000	2.503
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	2.848	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.000	0.90	0.000
EE02	100	0.001	0.90	0.001
EE03	100	0.001	0.90	0.001
EE04	100	0.001	0.90	0.001
EE05	100	0.001	0.90	0.001
EE06	100	0.001	0.90	0.001
EE07	100	0.001	0.90	0.001
EE08	100	0.001	0.90	0.001
EE09	100	0.001	0.90	0.001
EE10	100	0.001	0.90	0.001
EW01	100	0.001	0.90	0.001
EW02	100	0.001	0.90	0.001
EW03	100	0.001	0.90	0.001
Unused	100	0.000	0.90	0.000
Unused	100	0.000	0.90	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-145
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Cyanide**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	4.836	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.259	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.001	0.09	0.009
EE02	100	0.001	0.09	0.009
EE03	100	0.001	0.09	0.009
EE04	100	0.001	0.09	0.009
EE05	100	0.001	0.09	0.009
EE06	100	0.001	0.09	0.009
EE07	100	0.001	0.09	0.009
EE08	100	0.001	0.09	0.009
EE09	100	0.001	0.09	0.009
EE10	100	0.001	0.09	0.009
EW01	100	0.001	0.09	0.009
EW02	100	0.001	0.09	0.009
EW03	100	0.001	0.09	0.009
Unused	100	0.000	0.09	0.000
Unused	100	0.000	0.09	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-146
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Cyanide

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	4.836	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.259	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.001	0.90	0.001
EE02	100	0.001	0.90	0.001
EE03	100	0.001	0.90	0.001
EE04	100	0.001	0.90	0.001
EE05	100	0.001	0.90	0.001
EE06	100	0.001	0.90	0.001
EE07	100	0.001	0.90	0.001
EE08	100	0.001	0.90	0.001
EE09	100	0.001	0.90	0.001
EE10	100	0.001	0.90	0.001
EW01	100	0.001	0.90	0.001
EW02	100	0.001	0.90	0.001
EW03	100	0.001	0.90	0.001
Unused	100	0.000	0.90	0.000
Unused	100	0.000	0.90	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-147
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Cyanide

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
EE02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
EE03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
EE04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
EE05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
EE06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
EE07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
EE08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
EE09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
EE10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
EW01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
EW02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
EW03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00

**TABLE I-148
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Lead**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	4.121	1.640	2.538	2.538	0.029	0.029	0.029	0.029	0.000	19.863	0.000	1.900
EE02	28.197	1.640	17.368	17.368	0.196	0.196	0.196	0.196	0.000	15.070	0.000	13.000
EE03	4.761	1.640	2.933	2.933	0.033	0.033	0.033	0.033	0.000	12.041	0.000	2.195
EE04	3.145	3.940	1.937	1.937	0.022	0.022	0.022	0.022	0.000	112.484	0.000	1.450
EE05	7.917	3.940	4.876	4.876	0.055	0.055	0.055	0.055	0.000	94.793	0.000	3.650
EE06	35.463	3.940	21.844	21.844	0.247	0.247	0.247	0.247	0.000	72.095	0.000	16.350
EE07	6.615	1.700	4.075	4.075	0.046	0.046	0.046	0.046	0.000	7.305	0.000	3.050
EE08	4.772	2.300	2.939	2.939	0.033	0.033	0.033	0.033	0.000	13.223	0.000	2.200
EE09	10.520	1.630	6.480	6.480	0.073	0.073	0.073	0.073	0.000	56.685	0.000	4.850
EE10	4.880	1.630	3.006	3.006	0.034	0.034	0.034	0.034	0.000	16.278	0.000	2.250
EW01	4.555	0.840	2.806	2.806	0.032	0.032	0.032	0.032	0.000	73.370	0.000	2.100
EW02	27.938	0.840	17.221	17.221	0.195	0.195	0.195	0.195	0.000	34.704	0.000	12.890
EW03	3.199	1.183	1.971	1.971	0.022	0.022	0.022	0.022	0.000	10.819	0.000	1.475
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	100	0.730	16.00	0.046	
EE02	100	4.992	16.00	0.312	
EE03	100	0.843	16.00	0.053	
EE04	100	0.557	16.00	0.035	
EE05	100	1.402	16.00	0.088	
EE06	100	6.278	16.00	0.392	
EE07	100	1.171	16.00	0.073	
EE08	100	0.845	16.00	0.053	
EE09	100	1.862	16.00	0.116	
EE10	100	0.864	16.00	0.054	
EW01	100	0.806	16.00	0.050	
EW02	100	4.950	16.00	0.309	
EW03	100	0.566	16.00	0.035	
Unused	100	0.000	16.00	0.000	
Unused	100	0.000	16.00	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-149
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Lead

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	4.121	1.640	2.538	2.538	0.029	0.029	0.029	0.029	0.000	19.863	0.000	1.900
EE02	28.197	1.640	17.368	17.368	0.196	0.196	0.196	0.196	0.000	15.070	0.000	13.000
EE03	4.761	1.640	2.933	2.933	0.033	0.033	0.033	0.033	0.000	12.041	0.000	2.195
EE04	3.145	3.940	1.937	1.937	0.022	0.022	0.022	0.022	0.000	112.484	0.000	1.450
EE05	7.917	3.940	4.876	4.876	0.055	0.055	0.055	0.055	0.000	94.793	0.000	3.650
EE06	35.463	3.940	21.844	21.844	0.247	0.247	0.247	0.247	0.000	72.095	0.000	16.350
EE07	6.615	1.700	4.075	4.075	0.046	0.046	0.046	0.046	0.000	7.305	0.000	3.050
EE08	4.772	2.300	2.939	2.939	0.033	0.033	0.033	0.033	0.000	13.223	0.000	2.200
EE09	10.520	1.630	6.480	6.480	0.073	0.073	0.073	0.073	0.000	56.685	0.000	4.850
EE10	4.880	1.630	3.006	3.006	0.034	0.034	0.034	0.034	0.000	16.278	0.000	2.250
EW01	4.555	0.840	2.806	2.806	0.032	0.032	0.032	0.032	0.000	73.370	0.000	2.100
EW02	27.958	0.840	17.221	17.221	0.195	0.195	0.195	0.195	0.000	34.704	0.000	12.890
EW03	3.199	1.183	1.971	1.971	0.022	0.022	0.022	0.022	0.000	10.819	0.000	1.475
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.730	48.00	0.015
EE02	100	4.992	48.00	0.104
EE03	100	0.843	48.00	0.018
EE04	100	0.557	48.00	0.012
EE05	100	1.402	48.00	0.029
EE06	100	6.278	48.00	0.131
EE07	100	1.171	48.00	0.024
EE08	100	0.845	48.00	0.018
EE09	100	1.862	48.00	0.039
EE10	100	0.864	48.00	0.018
EW01	100	0.806	48.00	0.017
EW02	100	4.950	48.00	0.103
EW03	100	0.566	48.00	0.012
Unused	100	0.000	48.00	0.000
Unused	100	0.000	48.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-150
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Lead**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	5.856	2.100	3.607	3.607	0.041	0.041	0.041	0.041	0.000	25.200	0.000	2.700
EE02	52.056	2.100	32.064	32.064	0.362	0.362	0.362	0.362	0.000	17.708	0.000	24.000
EE03	7.592	2.100	4.676	4.676	0.053	0.053	0.053	0.053	0.000	21.588	0.000	3.500
EE04	4.338	5.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	196.000	0.000	2.000
EE05	14.749	5.600	9.085	9.085	0.103	0.103	0.103	0.103	0.000	106.080	0.000	6.800
EE06	65.070	5.600	40.080	40.080	0.453	0.453	0.453	0.453	0.000	91.080	0.000	30.000
EE07	6.941	2.500	4.275	4.275	0.048	0.048	0.048	0.048	0.000	10.792	0.000	3.200
EE08	4.989	2.300	3.073	3.073	0.035	0.035	0.035	0.035	0.000	17.820	0.000	2.300
EE09	16.484	2.000	10.154	10.154	0.115	0.115	0.115	0.115	0.000	63.960	0.000	7.600
EE10	4.989	2.000	3.073	3.073	0.035	0.035	0.035	0.035	0.000	23.400	0.000	2.300
EW01	4.772	0.910	2.939	2.939	0.033	0.033	0.033	0.033	0.000	119.700	0.000	2.200
EW02	54.225	0.910	33.400	33.400	0.378	0.378	0.378	0.378	0.000	51.450	0.000	25.000
EW03	4.338	1.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	15.488	0.000	2.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS			
BASED ON UCL (or max) CONCENTRATIONS			
LOCATION	Area Use Factor	Applied Daily Dose	HAZARD QUOTIENT
EE01	100	1.037	0.063
EE02	100	9.216	0.576
EE03	100	1.344	0.084
EE04	100	0.768	0.048
EE05	100	2.611	0.163
EE06	100	11.519	0.720
EE07	100	1.229	0.077
EE08	100	0.883	0.055
EE09	100	2.918	0.182
EE10	100	0.883	0.055
EW01	100	0.845	0.053
EW02	100	9.600	0.600
EW03	100	0.768	0.048
Unused	100	0.000	0.000
Unused	100	0.000	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-151
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Lead**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	5.856	2.100	3.607	3.607	0.041	0.041	0.041	0.041	0.000	25.200	0.000	2.700
EE02	52.056	2.100	32.064	32.064	0.362	0.362	0.362	0.362	0.000	17.708	0.000	24.000
EE03	7.592	2.100	4.676	4.676	0.053	0.053	0.053	0.053	0.000	21.588	0.000	3.500
EE04	4.338	5.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	196.000	0.000	2.000
EE05	14.749	5.600	9.085	9.085	0.103	0.103	0.103	0.103	0.000	106.080	0.000	6.800
EE06	65.070	5.600	40.080	40.080	0.453	0.453	0.453	0.453	0.000	91.080	0.000	30.000
EE07	6.941	2.500	4.275	4.275	0.048	0.048	0.048	0.048	0.000	10.792	0.000	3.200
EE08	4.989	2.300	3.073	3.073	0.035	0.035	0.035	0.035	0.000	17.820	0.000	2.300
EE09	16.484	2.000	10.154	10.154	0.115	0.115	0.115	0.115	0.000	63.960	0.000	7.600
EE10	4.989	2.000	3.073	3.073	0.035	0.035	0.035	0.035	0.000	23.400	0.000	2.300
EW01	4.772	0.910	2.939	2.939	0.033	0.033	0.033	0.033	0.000	119.700	0.000	2.200
EW02	54.225	0.910	33.400	33.400	0.378	0.378	0.378	0.378	0.000	51.450	0.000	25.000
EW03	4.338	1.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	15.488	0.000	2.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	1.037	48.00	0.022
EE02	100	9.216	48.00	0.192
EE03	100	1.344	48.00	0.028
EE04	100	0.768	48.00	0.016
EE05	100	2.611	48.00	0.054
EE06	100	11.519	48.00	0.240
EE07	100	1.229	48.00	0.026
EE08	100	0.883	48.00	0.018
EE09	100	2.918	48.00	0.061
EE10	100	0.883	48.00	0.018
EW01	100	0.845	48.00	0.018
EW02	100	9.600	48.00	0.200
EW03	100	0.768	48.00	0.016
Unused	100	0.000	48.00	0.000
Unused	100	0.000	48.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-152
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Red-Winged Blackbird exposed to Lead

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE02	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE03	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE04	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE05	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE06	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE07	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE08	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE09	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE10	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EW01	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EW02	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EW03	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Average	79.08	0.00	0.00	20.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04

TABLE I-153
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Mercury

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.110	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.410	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.118	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.272	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.223	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.062	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.092	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.614	0.42	1.462
EE02	100	0.614	0.42	1.462
EE03	100	0.614	0.42	1.462
EE04	100	0.614	0.42	1.462
EE05	100	0.614	0.42	1.462
EE06	100	0.614	0.42	1.462
EE07	100	0.614	0.42	1.462
EE08	100	0.614	0.42	1.462
EE09	100	0.614	0.42	1.462
EE10	100	0.614	0.42	1.462
EW01	100	0.614	0.42	1.462
EW02	100	0.614	0.42	1.462
EW03	100	0.614	0.42	1.462
Unused	100	0.000	0.42	0.000
Unused	100	0.000	0.42	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-154
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Mercury**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.110	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.410	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.118	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.272	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.223	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.062	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.092	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.614	0.64	0.959
EE02	100	0.614	0.64	0.959
EE03	100	0.614	0.64	0.959
EE04	100	0.614	0.64	0.959
EE05	100	0.614	0.64	0.959
EE06	100	0.614	0.64	0.959
EE07	100	0.614	0.64	0.959
EE08	100	0.614	0.64	0.959
EE09	100	0.614	0.64	0.959
EE10	100	0.614	0.64	0.959
EW01	100	0.614	0.64	0.959
EW02	100	0.614	0.64	0.959
EW03	100	0.614	0.64	0.959
Unused	100	0.000	0.64	0.000
Unused	100	0.000	0.64	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-155
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Mercury

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.170	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.714	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.155	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.387	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.076	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.133	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.399	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.614	0.42	1.462
EE02	100	0.614	0.42	1.462
EE03	100	0.614	0.42	1.462
EE04	100	0.614	0.42	1.462
EE05	100	0.614	0.42	1.462
EE06	100	0.614	0.42	1.462
EE07	100	0.614	0.42	1.462
EE08	100	0.614	0.42	1.462
EE09	100	0.614	0.42	1.462
EE10	100	0.614	0.42	1.462
EW01	100	0.614	0.42	1.462
EW02	100	0.614	0.42	1.462
EW03	100	0.614	0.42	1.462
Unused	100	0.000	0.42	0.000
Unused	100	0.000	0.42	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-156
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Mercury**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.170	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.714	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.155	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.387	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.076	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.133	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.399	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	100	0.614	0.64	0.959	
EE02	100	0.614	0.64	0.959	
EE03	100	0.614	0.64	0.959	
EE04	100	0.614	0.64	0.959	
EE05	100	0.614	0.64	0.959	
EE06	100	0.614	0.64	0.959	
EE07	100	0.614	0.64	0.959	
EE08	100	0.614	0.64	0.959	
EE09	100	0.614	0.64	0.959	
EE10	100	0.614	0.64	0.959	
EW01	100	0.614	0.64	0.959	
EW02	100	0.614	0.64	0.959	
EW03	100	0.614	0.64	0.959	
Unused	100	0.000	0.64	0.000	
Unused	100	0.000	0.64	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-157
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Mercury

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE02	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE03	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE04	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE05	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE06	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE07	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE08	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE09	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE10	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EW01	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EW02	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EW03	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	2.28	0.00	0.00	97.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE I-158
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Nickel

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	6.864	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	47.934	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	13.810	0.000	20.000
EE04	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	21.815	0.000	20.000
EE05	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	200.470	0.000	20.000
EE06	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	135.033	0.000	20.000
EE07	1.475	1.700	1.475	1.475	0.031	0.031	0.031	0.031	0.000	19.937	0.000	14.750
EE08	1.500	1.800	1.500	1.500	0.032	0.032	0.032	0.032	0.000	21.024	0.000	15.000
EE09	1.700	1.530	1.700	1.700	0.036	0.036	0.036	0.036	0.000	65.658	0.000	17.000
EE10	2.000	1.530	2.000	2.000	0.042	0.042	0.042	0.042	0.000	41.703	0.000	20.000
EW01	6.900	1.000	6.900	6.900	0.145	0.145	0.145	0.145	0.000	1002.100	0.000	69.000
EW02	1.650	1.000	1.650	1.650	0.035	0.035	0.035	0.035	0.000	51.675	0.000	16.500
EW03	1.600	1.900	1.600	1.600	0.034	0.034	0.034	0.034	0.000	12.551	0.000	16.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.403	0.07	6.018
EE02	100	0.403	0.07	6.018
EE03	100	0.403	0.07	6.018
EE04	100	0.403	0.07	6.018
EE05	100	0.403	0.07	6.018
EE06	100	0.403	0.07	6.018
EE07	100	0.297	0.07	4.438
EE08	100	0.302	0.07	4.513
EE09	100	0.343	0.07	5.115
EE10	100	0.403	0.07	6.018
EW01	100	1.391	0.07	20.762
EW02	100	0.333	0.07	4.963
EW03	100	0.323	0.07	4.814
Unused	100	0.000	0.07	0.000
Unused	100	0.000	0.07	0.000

**TABLE I-159
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Nickel**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	6.864	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	47.934	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	13.810	0.000	20.000
EE04	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	21.815	0.000	20.000
EE05	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	200.470	0.000	20.000
EE06	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	135.033	0.000	20.000
EE07	1.475	1.700	1.475	1.475	0.031	0.031	0.031	0.031	0.000	19.937	0.000	14.750
EE08	1.500	1.800	1.500	1.500	0.032	0.032	0.032	0.032	0.000	21.024	0.000	15.000
EE09	1.700	1.530	1.700	1.700	0.036	0.036	0.036	0.036	0.000	65.658	0.000	17.000
EE10	2.000	1.530	2.000	2.000	0.042	0.042	0.042	0.042	0.000	41.703	0.000	20.000
EW01	6.900	1.000	6.900	6.900	0.145	0.145	0.145	0.145	0.000	1002.100	0.000	69.000
EW02	1.650	1.000	1.650	1.650	0.035	0.035	0.035	0.035	0.000	51.675	0.000	16.500
EW03	1.600	1.900	1.600	1.600	0.034	0.034	0.034	0.034	0.000	12.551	0.000	16.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.403	0.67	0.602
EE02	100	0.403	0.67	0.602
EE03	100	0.403	0.67	0.602
EE04	100	0.403	0.67	0.602
EE05	100	0.403	0.67	0.602
EE06	100	0.403	0.67	0.602
EE07	100	0.297	0.67	0.444
EE08	100	0.302	0.67	0.451
EE09	100	0.343	0.67	0.512
EE10	100	0.403	0.67	0.602
EW01	100	1.391	0.67	2.076
EW02	100	0.333	0.67	0.496
EW03	100	0.323	0.67	0.481
Unused	100	0.000	0.67	0.000
Unused	100	0.000	0.67	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-160
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Nickel**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	8.000	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	48.216	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	17.372	0.000	20.000
EE04	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	25.149	0.000	20.000
EE05	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	238.180	0.000	20.000
EE06	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	228.800	0.000	20.000
EE07	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	36.636	0.000	20.000
EE08	2.000	1.800	2.000	2.000	0.042	0.042	0.042	0.042	0.000	32.319	0.000	20.000
EE09	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	107.420	0.000	20.000
EE10	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	75.426	0.000	20.000
EW01	9.900	1.000	9.900	9.900	0.208	0.208	0.208	0.208	0.000	1751.400	0.000	99.000
EW02	2.000	1.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	78.750	0.000	20.000
EW03	2.000	1.900	2.000	2.000	0.042	0.042	0.042	0.042	0.000	20.592	0.000	20.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.403	0.07	6.018
EE02	100	0.403	0.07	6.018
EE03	100	0.403	0.07	6.018
EE04	100	0.403	0.07	6.018
EE05	100	0.403	0.07	6.018
EE06	100	0.403	0.07	6.018
EE07	100	0.403	0.07	6.018
EE08	100	0.403	0.07	6.018
EE09	100	0.403	0.07	6.018
EE10	100	0.403	0.07	6.018
EW01	100	1.996	0.07	29.789
EW02	100	0.403	0.07	6.018
EW03	100	0.403	0.07	6.018
Unused	100	0.000	0.07	0.000
Unused	100	0.000	0.07	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-161
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Nickel**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	8.000	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	48.216	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	17.372	0.000	20.000
EE04	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	25.149	0.000	20.000
EE05	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	258.180	0.000	20.000
EE06	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	228.800	0.000	20.000
EE07	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	36.636	0.000	20.000
EE08	2.000	1.800	2.000	2.000	0.042	0.042	0.042	0.042	0.000	32.319	0.000	20.000
EE09	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	107.420	0.000	20.000
EE10	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	75.426	0.000	20.000
EW01	9.900	1.000	9.900	9.900	0.208	0.208	0.208	0.208	0.000	1751.400	0.000	99.000
EW02	2.000	1.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	78.750	0.000	20.000
EW03	2.000	1.900	2.000	2.000	0.042	0.042	0.042	0.042	0.000	20.592	0.000	20.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.403	0.67	0.602
EE02	100	0.403	0.67	0.602
EE03	100	0.403	0.67	0.602
EE04	100	0.403	0.67	0.602
EE05	100	0.403	0.67	0.602
EE06	100	0.403	0.67	0.602
EE07	100	0.403	0.67	0.602
EE08	100	0.403	0.67	0.602
EE09	100	0.403	0.67	0.602
EE10	100	0.403	0.67	0.602
EW01	100	1.996	0.67	2.979
EW02	100	0.403	0.67	0.602
EW03	100	0.403	0.67	0.602
Unused	100	0.000	0.67	0.000
Unused	100	0.000	0.67	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-162
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Nickel

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
EE02	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
EE03	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
EE04	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
EE05	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
EE06	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
EE07	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
EE08	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
EE09	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
EE10	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
EW01	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
EW02	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
EW03	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
Average	69.44	0.00	0.00	29.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79

**TABLE I-163
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Selenium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.210	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.874	0.000	2.500
EE02	2.200	1.210	0.377	0.377	0.020	0.020	0.020	0.020	0.000	0.633	0.000	2.750
EE03	2.000	1.210	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.510	0.000	2.500
EE04	2.000	0.960	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.373	0.000	2.500
EE05	2.000	0.960	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.250	0.000	2.500
EE06	3.000	0.960	0.514	0.514	0.027	0.027	0.027	0.027	0.000	0.343	0.000	3.750
EE07	1.960	0.510	0.336	0.336	0.018	0.018	0.018	0.018	0.000	0.375	0.000	2.450
EE08	2.240	0.670	0.384	0.384	0.020	0.020	0.020	0.020	0.000	0.502	0.000	2.800
EE09	3.000	0.710	0.514	0.514	0.027	0.027	0.027	0.027	0.000	0.368	0.000	3.750
EE10	19.000	0.710	3.256	3.256	0.173	0.173	0.173	0.173	0.000	0.168	0.000	23.750
EW01	2.000	1.017	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.525	0.000	2.500
EW02	3.160	1.017	0.542	0.542	0.029	0.029	0.029	0.029	0.000	0.256	0.000	3.950
EW03	2.240	1.017	0.384	0.384	0.020	0.020	0.020	0.020	0.000	0.371	0.000	2.800
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.301	0.28	1.075
EE02	100	0.331	0.28	1.182
EE03	100	0.301	0.28	1.075
EE04	100	0.301	0.28	1.075
EE05	100	0.301	0.28	1.075
EE06	100	0.451	0.28	1.612
EE07	100	0.295	0.28	1.053
EE08	100	0.337	0.28	1.204
EE09	100	0.451	0.28	1.612
EE10	100	2.859	0.28	10.211
EW01	100	0.301	0.28	1.075
EW02	100	0.476	0.28	1.698
EW03	100	0.337	0.28	1.204
Unused	100	0.000	0.28	0.000
Unused	100	0.000	0.28	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-164
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Selenium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.210	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.874	0.000	2.500
EE02	2.200	1.210	0.377	0.377	0.020	0.020	0.020	0.020	0.000	0.633	0.000	2.750
EE03	2.000	1.210	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.510	0.000	2.500
EE04	2.000	0.960	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.373	0.000	2.500
EE05	2.000	0.960	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.250	0.000	2.500
EE06	3.000	0.960	0.514	0.514	0.027	0.027	0.027	0.027	0.000	0.343	0.000	3.750
EE07	1.960	0.510	0.336	0.336	0.018	0.018	0.018	0.018	0.000	0.375	0.000	2.450
EE08	2.240	0.670	0.384	0.384	0.020	0.020	0.020	0.020	0.000	0.502	0.000	2.800
EE09	3.000	0.710	0.514	0.514	0.027	0.027	0.027	0.027	0.000	0.368	0.000	3.750
EE10	19.000	0.710	3.256	3.256	0.173	0.173	0.173	0.173	0.000	0.168	0.000	23.750
EW01	2.000	1.017	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.525	0.000	2.500
EW02	3.160	1.017	0.542	0.542	0.029	0.029	0.029	0.029	0.000	0.256	0.000	3.950
EW03	2.240	1.017	0.384	0.384	0.020	0.020	0.020	0.020	0.000	0.371	0.000	2.800
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.301	0.34	0.885
EE02	100	0.331	0.34	0.974
EE03	100	0.301	0.34	0.885
EE04	100	0.301	0.34	0.885
EE05	100	0.301	0.34	0.885
EE06	100	0.451	0.34	1.328
EE07	100	0.295	0.34	0.867
EE08	100	0.337	0.34	0.991
EE09	100	0.451	0.34	1.328
EE10	100	2.859	0.34	8.409
EW01	100	0.301	0.34	0.885
EW02	100	0.476	0.34	1.399
EW03	100	0.337	0.34	0.991
Unused	100	0.000	0.34	0.000
Unused	100	0.000	0.34	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-165
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Selenium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.500	0.343	0.343	0.018	0.018	0.018	0.018	0.000	1.250	0.000	2.500
EE02	2.400	1.500	0.411	0.411	0.022	0.022	0.022	0.022	0.000	1.008	0.000	3.000
EE03	2.000	1.500	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.516	0.000	2.500
EE04	2.000	1.700	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.498	0.000	2.500
EE05	2.000	1.700	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.250	0.000	2.500
EE06	4.000	1.700	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.484	0.000	5.000
EE07	2.000	0.510	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.498	0.000	2.500
EE08	2.480	0.670	0.425	0.425	0.023	0.023	0.023	0.023	0.000	0.518	0.000	3.100
EE09	4.000	0.980	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.486	0.000	5.000
EE10	35.200	0.980	6.032	6.032	0.321	0.321	0.321	0.321	0.000	0.226	0.000	44.000
EW01	2.000	1.100	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.798	0.000	2.500
EW02	4.000	1.100	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.263	0.000	5.000
EW03	2.480	1.100	0.425	0.425	0.023	0.023	0.023	0.023	0.000	0.492	0.000	3.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.301	0.28	1.075
EE02	100	0.361	0.28	1.290
EE03	100	0.301	0.28	1.075
EE04	100	0.301	0.28	1.075
EE05	100	0.301	0.28	1.075
EE06	100	0.602	0.28	2.150
EE07	100	0.301	0.28	1.075
EE08	100	0.373	0.28	1.333
EE09	100	0.602	0.28	2.150
EE10	100	5.297	0.28	18.918
EW01	100	0.301	0.28	1.075
EW02	100	0.602	0.28	2.150
EW03	100	0.373	0.28	1.333
Unused	100	0.000	0.28	0.000
Unused	100	0.000	0.28	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-166
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Selenium

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.500	0.343	0.343	0.018	0.018	0.018	0.018	0.000	1.250	0.000	2.500
EE02	2.400	1.500	0.411	0.411	0.022	0.022	0.022	0.022	0.000	1.008	0.000	3.000
EE03	2.000	1.500	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.316	0.000	2.500
EE04	2.000	1.700	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.498	0.000	2.500
EE05	2.000	1.700	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.250	0.000	2.500
EE06	4.000	1.700	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.484	0.000	5.000
EE07	2.000	0.510	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.498	0.000	2.500
EE08	2.480	0.670	0.425	0.425	0.023	0.023	0.023	0.023	0.000	0.318	0.000	3.100
EE09	4.000	0.980	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.486	0.000	5.000
EE10	35.200	0.980	6.032	6.032	0.321	0.321	0.321	0.321	0.000	0.226	0.000	44.000
EW01	2.000	1.100	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.798	0.000	2.500
EW02	4.000	1.100	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.263	0.000	5.000
EW03	2.480	1.100	0.425	0.425	0.023	0.023	0.023	0.023	0.000	0.492	0.000	3.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.301	0.34	0.885
EE02	100	0.361	0.34	1.062
EE03	100	0.301	0.34	0.885
EE04	100	0.301	0.34	0.885
EE05	100	0.301	0.34	0.885
EE06	100	0.602	0.34	1.770
EE07	100	0.301	0.34	0.885
EE08	100	0.373	0.34	1.098
EE09	100	0.602	0.34	1.770
EE10	100	5.297	0.34	15.579
EW01	100	0.301	0.34	0.885
EW02	100	0.602	0.34	1.770
EW03	100	0.373	0.34	1.098
Unused	100	0.000	0.34	0.000
Unused	100	0.000	0.34	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-167
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Selenium

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
EE02	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
EE03	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
EE04	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
EE05	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
EE06	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
EE07	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
EE08	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
EE09	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
EE10	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
EW01	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
EW02	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
EW03	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
Average	93.03	0.00	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13

TABLE I-168
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Silver

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.348	0.000	0.060
EE02	0.011	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.733	0.000	0.055
EE03	0.023	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.762	0.000	0.115
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.489	0.000	0.050
EE05	0.030	0.320	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.568	0.000	0.150
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.358	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.853	0.000	0.050
EE08	0.024	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.826	0.000	0.120
EE09	0.019	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.491	0.000	0.095
EE10	0.010	1.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.514	0.000	0.050
EW01	0.017	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.316	0.000	0.085
EW02	0.018	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	2.705	0.000	0.090
EW03	0.010	0.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.774	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.002	4.80	0.000
EE02	100	0.002	4.80	0.000
EE03	100	0.003	4.80	0.001
EE04	100	0.001	4.80	0.000
EE05	100	0.004	4.80	0.001
EE06	100	0.001	4.80	0.000
EE07	100	0.001	4.80	0.000
EE08	100	0.003	4.80	0.001
EE09	100	0.003	4.80	0.001
EE10	100	0.001	4.80	0.000
EW01	100	0.002	4.80	0.001
EW02	100	0.003	4.80	0.001
EW03	100	0.001	4.80	0.000
Unused	100	0.000	4.80	0.000
Unused	100	0.000	4.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-169
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Silver**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.348	0.000	0.060
EE02	0.011	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.733	0.000	0.055
EE03	0.023	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.762	0.000	0.115
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.489	0.000	0.050
EE05	0.030	0.320	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.968	0.000	0.150
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.338	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.853	0.000	0.050
EE08	0.024	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.826	0.000	0.120
EE09	0.019	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.491	0.000	0.095
EE10	0.010	1.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.514	0.000	0.050
EW01	0.017	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.316	0.000	0.085
EW02	0.018	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	2.705	0.000	0.090
EW03	0.010	0.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.774	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.002	43.50	0.000
EE02	100	0.002	43.50	0.000
EE03	100	0.003	43.50	0.000
EE04	100	0.001	43.50	0.000
EE05	100	0.004	43.50	0.000
EE06	100	0.001	43.50	0.000
EE07	100	0.001	43.50	0.000
EE08	100	0.003	43.50	0.000
EE09	100	0.003	43.50	0.000
EE10	100	0.001	43.50	0.000
EW01	100	0.002	43.50	0.000
EW02	100	0.003	43.50	0.000
EW03	100	0.001	43.50	0.000
Unused	100	0.000	43.50	0.000
Unused	100	0.000	43.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-170
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Silver

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.014	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.700	0.000	0.070
EE02	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.478	0.000	0.060
EE03	0.036	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.008	0.000	0.180
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.498	0.000	0.050
EE05	0.050	0.320	0.001	0.001	0.002	0.002	0.002	0.002	0.000	9.594	0.000	0.250
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.648	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.207	0.000	0.050
EE08	0.038	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.134	0.000	0.190
EE09	0.028	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	5.822	0.000	0.140
EE10	0.010	1.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.524	0.000	0.050
EW01	0.024	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	15.120	0.000	0.120
EW02	0.026	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.425	0.000	0.130
EW03	0.010	0.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.056	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	100	0.002	4.80	0.000	
EE02	100	0.002	4.80	0.000	
EE03	100	0.005	4.80	0.001	
EE04	100	0.001	4.80	0.000	
EE05	100	0.007	4.80	0.001	
EE06	100	0.001	4.80	0.000	
EE07	100	0.001	4.80	0.000	
EE08	100	0.005	4.80	0.001	
EE09	100	0.004	4.80	0.001	
EE10	100	0.001	4.80	0.000	
EW01	100	0.003	4.80	0.001	
EW02	100	0.004	4.80	0.001	
EW03	100	0.001	4.80	0.000	
Unused	100	0.000	4.80	0.000	
Unused	100	0.000	4.80	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Swim Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-171
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Silver

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Soil/soil	Soil	Water
EE01	0.014	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.700	0.000	0.070
EE02	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.478	0.000	0.060
EE03	0.036	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.008	0.000	0.180
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.498	0.000	0.050
EE05	0.050	0.320	0.001	0.001	0.002	0.002	0.002	0.002	0.000	9.594	0.000	0.250
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.648	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.207	0.000	0.050
EE08	0.038	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.134	0.000	0.190
EE09	0.028	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	5.822	0.000	0.140
EE10	0.010	1.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.524	0.000	0.050
EW01	0.024	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	15.120	0.000	0.120
EW02	0.026	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.425	0.000	0.130
EW03	0.010	0.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.056	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.002	43.50	0.000
EE02	100	0.002	43.50	0.000
EE03	100	0.005	43.50	0.000
EE04	100	0.001	43.50	0.000
EE05	100	0.007	43.50	0.000
EE06	100	0.001	43.50	0.000
EE07	100	0.001	43.50	0.000
EE08	100	0.005	43.50	0.000
EE09	100	0.004	43.50	0.000
EE10	100	0.001	43.50	0.000
EW01	100	0.003	43.50	0.000
EW02	100	0.004	43.50	0.000
EW03	100	0.001	43.50	0.000
Unused	100	0.000	43.50	0.000
Unused	100	0.000	43.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-172
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Red-Winged Blackbird exposed to Silver

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
EE02	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
EE03	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
EE04	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
EE05	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
EE06	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
EE07	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
EE08	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
EE09	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
EE10	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
EW01	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
EW02	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
EW03	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
Average	98.93	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57

**TABLE I-173
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Total PCBs**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	1.998	454.920	398.055	593.850	395.900	29.929	59.858	0.000	5.815	0.000	0.750
EE02	0.003	1.998	454.920	398.055	395.900	263.933	19.953	39.905	0.000	24.237	0.000	0.500
EE03	0.000	1.998	57.606	50.406	395.900	263.933	19.953	39.905	0.000	0.582	0.000	0.500
EE04	0.001	2.697	113.246	99.090	395.900	263.933	19.953	39.905	0.000	0.331	0.000	0.500
EE05	0.003	2.697	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.720	0.000	0.500
EE06	0.001	2.697	95.927	83.936	395.900	263.933	19.953	39.905	0.000	0.727	0.000	0.500
EE07	0.000	0.600	81.145	71.002	395.900	263.933	19.953	39.905	0.000	0.168	0.000	0.500
EE08	0.000	1.665	47.224	41.321	395.900	263.933	19.953	39.905	0.000	0.114	0.000	0.500
EE09	0.000	0.767	12.081	10.571	395.900	263.933	19.953	39.905	0.000	0.153	0.000	0.500
EE10	0.001	0.767	203.043	177.663	395.900	263.933	19.953	39.905	0.000	0.265	0.000	0.500
EW01	0.003	3.180	454.920	398.055	395.900	263.933	19.953	39.905	0.000	9.336	0.000	0.500
EW02	0.002	3.180	311.530	272.589	395.900	263.933	19.953	39.905	0.000	0.684	0.000	0.500
EW03	0.003	1.980	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.445	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	23.884	1.40	17.060
EE02	100	23.884	1.40	17.060
EE03	100	3.024	1.40	2.160
EE04	100	5.946	1.40	4.247
EE05	100	23.884	1.40	17.060
EE06	100	5.036	1.40	3.597
EE07	100	4.260	1.40	3.043
EE08	100	2.479	1.40	1.771
EE09	100	0.634	1.40	0.453
EE10	100	10.660	1.40	7.614
EW01	100	23.884	1.40	17.060
EW02	100	16.356	1.40	11.683
EW03	100	23.884	1.40	17.060
--	100	0.000	1.40	0.000
--	100	0.000	1.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-174
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Total PCBs**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	1.998	454.920	398.055	395.900	395.900	29.929	59.858	0.000	5.815	0.000	0.750
EE02	0.003	1.998	454.920	398.055	395.900	263.933	19.953	39.905	0.000	24.237	0.000	0.500
EE03	0.000	1.998	57.606	30.406	395.900	263.933	19.953	39.905	0.000	0.582	0.000	0.500
EE04	0.001	2.697	113.246	99.090	395.900	263.933	19.953	39.905	0.000	0.531	0.000	0.500
EE05	0.003	2.697	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.720	0.000	0.500
EE06	0.001	2.697	95.927	83.936	395.900	263.933	19.953	39.905	0.000	0.727	0.000	0.500
EE07	0.000	0.600	81.145	71.002	395.900	263.933	19.953	39.905	0.000	0.168	0.000	0.500
EE08	0.000	1.665	47.224	41.321	395.900	263.933	19.953	39.905	0.000	0.114	0.000	0.500
EE09	0.000	0.767	12.081	10.571	395.900	263.933	19.953	39.905	0.000	0.153	0.000	0.500
EE10	0.001	0.767	203.043	177.663	395.900	263.933	19.953	39.905	0.000	0.265	0.000	0.500
EW01	0.003	3.180	454.920	398.055	395.900	263.933	19.953	39.905	0.000	9.336	0.000	0.500
EW02	0.002	3.180	311.530	272.589	395.900	263.933	19.953	39.905	0.000	0.684	0.000	0.500
EW03	0.003	1.980	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.445	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	23.884	1.80	13.269
EE02	100	23.884	1.80	13.269
EE03	100	3.024	1.80	1.680
EE04	100	5.946	1.80	3.303
EE05	100	23.884	1.80	13.269
EE06	100	5.036	1.80	2.798
EE07	100	4.260	1.80	2.367
EE08	100	2.479	1.80	1.377
EE09	100	0.634	1.80	0.352
EE10	100	10.660	1.80	5.922
EW01	100	23.884	1.80	13.269
EW02	100	16.356	1.80	9.086
EW03	100	23.884	1.80	13.269
--	100	0.000	1.80	0.000
--	100	0.000	1.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-175
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Total PCBs

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	3.465	454.920	398.055	791.800	527.867	39.905	79.810	0.000	10.790	0.000	1.000
EE02	0.003	3.465	454.920	398.055	395.900	263.933	19.953	39.905	0.000	26.737	0.000	0.500
EE03	0.000	3.465	79.821	69.844	395.900	263.933	19.953	39.905	0.000	0.813	0.000	0.500
EE04	0.001	3.880	117.151	102.507	395.900	263.933	19.953	39.905	0.000	0.540	0.000	0.500
EE05	0.003	3.880	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.760	0.000	0.500
EE06	0.001	3.880	124.333	108.791	395.900	263.933	19.953	39.905	0.000	0.920	0.000	0.500
EE07	0.001	0.825	130.045	113.789	395.900	263.933	19.953	39.905	0.000	0.261	0.000	0.500
EE08	0.000	1.765	78.733	68.892	395.900	263.933	19.953	39.905	0.000	0.195	0.000	0.500
EE09	0.000	0.965	20.628	18.049	395.900	263.933	19.953	39.905	0.000	0.260	0.000	0.500
EE10	0.002	0.965	271.440	237.510	395.900	263.933	19.953	39.905	0.000	0.345	0.000	0.500
EW01	0.003	3.730	454.920	398.055	395.900	263.933	19.953	39.905	0.000	14.259	0.000	0.500
EW02	0.003	3.730	422.414	369.612	395.900	263.933	19.953	39.905	0.000	0.900	0.000	0.500
EW03	0.003	2.330	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.497	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	23.884	1.40	17.060
EE02	100	23.884	1.40	17.060
EE03	100	4.191	1.40	2.993
EE04	100	6.151	1.40	4.393
EE05	100	23.884	1.40	17.060
EE06	100	6.528	1.40	4.663
EE07	100	6.528	1.40	4.877
EE08	100	4.134	1.40	2.953
EE09	100	1.083	1.40	0.774
EE10	100	14.251	1.40	10.179
EW01	100	23.884	1.40	17.060
EW02	100	22.177	1.40	15.841
EW03	100	23.884	1.40	17.060
--	100	0.000	1.40	0.000
--	100	0.000	1.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-176
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Total PCBs**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	3.465	454.920	398.055	791.800	527.867	39.905	79.810	0.000	10.790	0.000	1.000
EE02	0.003	3.465	454.920	398.055	395.900	263.933	19.953	39.905	0.000	26.737	0.000	0.500
EE03	0.000	3.465	79.821	69.844	395.900	263.933	19.953	39.905	0.000	0.813	0.000	0.500
EE04	0.001	3.880	117.151	102.507	395.900	263.933	19.953	39.905	0.000	0.340	0.000	0.500
EE05	0.003	3.880	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.760	0.000	0.500
EE06	0.001	3.880	124.333	108.791	395.900	263.933	19.953	39.905	0.000	0.920	0.000	0.500
EE07	0.001	0.825	130.045	113.789	395.900	263.933	19.953	39.905	0.000	0.261	0.000	0.500
EE08	0.000	1.765	78.733	68.892	395.900	263.933	19.953	39.905	0.000	0.195	0.000	0.500
EE09	0.000	0.965	20.628	18.049	395.900	263.933	19.953	39.905	0.000	0.260	0.000	0.500
EE10	0.002	0.965	271.440	237.510	395.900	263.933	19.953	39.905	0.000	0.345	0.000	0.500
EW01	0.003	3.730	454.920	398.055	395.900	263.933	19.953	39.905	0.000	14.259	0.000	0.500
EW02	0.003	3.730	422.414	369.612	395.900	263.933	19.953	39.905	0.000	0.900	0.000	0.500
EW03	0.003	2.330	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.497	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	23.884	1.80	13.269
EE02	100	23.884	1.80	13.269
EE03	100	4.191	1.80	2.328
EE04	100	6.151	1.80	3.417
EE05	100	23.884	1.80	13.269
EE06	100	6.528	1.80	3.626
EE07	100	6.828	1.80	3.793
EE08	100	4.134	1.80	2.296
EE09	100	1.083	1.80	0.602
EE10	100	14.251	1.80	7.917
EW01	100	23.884	1.80	13.269
EW02	100	22.177	1.80	12.321
EW03	100	23.884	1.80	13.269
--	100	0.000	1.80	0.000
--	100	0.000	1.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-177
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Total PCBs

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE02	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE03	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE04	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE05	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE06	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE07	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE08	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE09	0.00	0.00	0.00	99.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE10	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EW01	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EW02	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EW03	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE I-178
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Aldrin

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	0.840	0.735	0.298	0.199	0.062	0.123	0.000	0.046	0.000	0.025
EE02	0.001	0.009	1.387	1.213	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.190	0.167	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.043	0.004	72.324	63.284	0.298	0.199	0.062	0.123	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.572	0.500	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.000	0.003	0.522	0.457	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE08	0.001	0.009	1.368	1.197	0.298	0.199	0.062	0.123	0.000	0.016	0.000	0.025
EE09	0.000	0.009	0.074	0.064	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE10	0.000	0.009	0.272	0.238	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	0.877	0.768	0.298	0.199	0.062	0.123	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.607	0.531	0.298	0.199	0.062	0.123	0.000	0.006	0.000	0.025
EW03	0.001	0.017	0.963	0.842	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.044	0.07	0.670
EE02	100	0.073	0.07	1.106
EE03	100	0.006	0.07	0.085
EE04	100	0.010	0.07	0.152
EE05	100	3.803	0.07	57.708
EE06	100	0.030	0.07	0.456
EE07	100	0.027	0.07	0.417
EE08	100	0.072	0.07	1.092
EE09	100	0.004	0.07	0.059
EE10	100	0.014	0.07	0.217
EW01	100	0.046	0.07	0.700
EW02	100	0.032	0.07	0.484
EW03	100	0.051	0.07	0.768
--	100	0.000	0.07	0.000
--	100	0.000	0.07	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-179
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Aldrin

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	0.840	0.735	0.298	0.199	0.062	0.123	0.000	0.046	0.000	0.025
EE02	0.001	0.009	1.387	1.213	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.190	0.167	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.043	0.004	72.324	63.284	0.298	0.199	0.062	0.123	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.572	0.500	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.000	0.003	0.522	0.457	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE08	0.001	0.009	1.368	1.197	0.298	0.199	0.062	0.123	0.000	0.016	0.000	0.025
EE09	0.000	0.009	0.074	0.064	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE10	0.000	0.009	0.272	0.238	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	0.877	0.768	0.298	0.199	0.062	0.123	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.607	0.531	0.298	0.199	0.062	0.123	0.000	0.006	0.000	0.025
EW03	0.001	0.017	0.963	0.842	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.044	0.66	0.067
EE02	100	0.073	0.66	0.111
EE03	100	0.006	0.66	0.008
EE04	100	0.010	0.66	0.015
EE05	100	3.803	0.66	5.771
EE06	100	0.030	0.66	0.046
EE07	100	0.027	0.66	0.042
EE08	100	0.072	0.66	0.109
EE09	100	0.004	0.66	0.006
EE10	100	0.014	0.66	0.022
EW01	100	0.046	0.66	0.070
EW02	100	0.032	0.66	0.048
EW03	100	0.051	0.66	0.077
--	100	0.000	0.66	0.000
--	100	0.000	0.66	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-180
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Aldrin

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.009	1.603	1.403	0.298	0.199	0.062	0.123	0.000	0.087	0.000	0.025
EE02	0.001	0.009	1.433	1.271	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.176	0.154	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.199	0.175	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.045	0.004	75.768	66.297	0.298	0.199	0.062	0.123	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.584	0.511	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.001	0.003	0.962	0.842	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE08	0.001	0.009	2.376	2.035	0.298	0.199	0.062	0.123	0.000	0.078	0.000	0.025
EE09	0.000	0.009	0.133	0.116	0.298	0.199	0.062	0.123	0.000	0.008	0.000	0.025
EE10	0.000	0.009	0.282	0.247	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	1.588	1.390	0.298	0.199	0.062	0.123	0.000	0.086	0.000	0.025
EW02	0.000	0.017	0.846	0.740	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EW03	0.001	0.017	0.977	0.855	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.084	0.07	1.279
EE02	100	0.076	0.07	1.159
EE03	100	0.009	0.07	0.141
EE04	100	0.010	0.07	0.159
EE05	100	3.984	0.07	60.456
EE06	100	0.031	0.07	0.466
EE07	100	0.051	0.07	0.768
EE08	100	0.122	0.07	1.856
EE09	100	0.007	0.07	0.106
EE10	100	0.015	0.07	0.225
EW01	100	0.084	0.07	1.267
EW02	100	0.044	0.07	0.675
EW03	100	0.051	0.07	0.780
--	100	0.000	0.07	0.000
--	100	0.000	0.07	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-181
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Aldrin

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (eg/L)
EE01	0.001	0.009	1.603	1.403	0.298	0.199	0.062	0.123	0.000	0.087	0.000	0.025
EE02	0.001	0.009	1.453	1.271	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.176	0.154	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.199	0.175	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.045	0.004	75.768	66.297	0.298	0.199	0.062	0.123	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.584	0.511	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.001	0.003	0.962	0.842	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE08	0.001	0.009	2.326	2.035	0.298	0.199	0.062	0.123	0.000	0.028	0.000	0.025
EE09	0.000	0.009	0.133	0.116	0.298	0.199	0.062	0.123	0.000	0.008	0.000	0.025
EE10	0.000	0.009	0.282	0.247	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	1.588	1.390	0.298	0.199	0.062	0.123	0.000	0.086	0.000	0.025
EW02	0.000	0.017	0.846	0.740	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EW03	0.001	0.017	0.977	0.855	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.084	0.66	0.128
EE02	100	0.076	0.66	0.116
EE03	100	0.009	0.66	0.014
EE04	100	0.010	0.66	0.016
EE05	100	3.984	0.66	6.046
EE06	100	0.031	0.66	0.047
EE07	100	0.051	0.66	0.077
EE08	100	0.122	0.66	0.186
EE09	100	0.007	0.66	0.011
EE10	100	0.015	0.66	0.023
EW01	100	0.084	0.66	0.127
EW02	100	0.044	0.66	0.067
EW03	100	0.051	0.66	0.078
--	100	0.000	0.66	0.000
--	100	0.000	0.66	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-182
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Aldrin

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.16	0.00	0.00	99.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE02	0.16	0.00	0.00	99.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE03	0.16	0.00	0.00	99.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
EE04	0.16	0.00	0.00	99.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE05	0.16	0.00	0.00	99.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE06	0.16	0.00	0.00	99.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE07	0.16	0.00	0.00	99.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE08	0.16	0.00	0.00	99.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE09	0.16	0.00	0.00	99.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
EE10	0.16	0.00	0.00	99.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
EW01	0.16	0.00	0.00	99.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EW02	0.16	0.00	0.00	99.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EW03	0.16	0.00	0.00	99.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Average	0.16	0.00	0.00	99.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02

**TABLE I-183
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to alpha-Chlordane**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.000	0.009	1.331	1.165	1.759	1.173	0.173	0.347	0.000	0.046	0.000	0.025
EE02	0.000	0.009	2.198	1.923	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.168	0.147	1.759	1.173	0.173	0.347	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.302	0.264	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.070	0.004	567.672	496.713	1.759	1.173	0.173	0.347	0.000	4.096	0.000	0.025
EE06	0.000	0.004	0.182	0.159	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.202	0.177	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.125	0.109	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.034	0.029	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE10	0.000	0.009	0.432	0.378	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	1.391	1.217	1.759	1.173	0.173	0.347	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.962	0.841	1.759	1.173	0.173	0.347	0.000	0.006	0.000	0.025
EW03	0.000	0.017	1.526	1.335	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	100	0.070	2.50	0.028	
EE02	100	0.115	2.50	0.046	
EE03	100	0.009	2.50	0.004	
EE04	100	0.016	2.50	0.006	
EE05	100	29.813	2.50	11.923	
EE06	100	0.010	2.50	0.004	
EE07	100	0.011	2.50	0.004	
EE08	100	0.007	2.50	0.003	
EE09	100	0.002	2.50	0.001	
EE10	100	0.023	2.50	0.009	
EW01	100	0.073	2.50	0.029	
EW02	100	0.051	2.50	0.020	
EW03	100	0.080	2.50	0.032	
--	100	0.000	2.50	0.000	
--	100	0.000	2.50	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-184
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to alpha-Chlordane**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	1.331	1.165	1.759	1.173	0.173	0.347	0.000	0.046	0.000	0.025
EE02	0.000	0.009	2.198	1.923	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.168	0.147	1.759	1.173	0.173	0.347	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.302	0.264	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.070	0.004	567.672	496.713	1.759	1.173	0.173	0.347	0.000	4.096	0.000	0.025
EE06	0.000	0.004	0.182	0.159	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.202	0.177	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.125	0.109	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.034	0.029	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE10	0.000	0.009	0.432	0.378	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	1.391	1.217	1.759	1.173	0.173	0.347	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.962	0.841	1.759	1.173	0.173	0.347	0.000	0.006	0.000	0.025
EW03	0.000	0.017	1.526	1.335	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.070	2.50	0.028
EE02	100	0.115	2.50	0.046
EE03	100	0.009	2.50	0.004
EE04	100	0.016	2.50	0.006
EE05	100	29.813	2.50	11.925
EE06	100	0.010	2.50	0.004
EE07	100	0.011	2.50	0.004
EE08	100	0.007	2.50	0.003
EE09	100	0.002	2.50	0.001
EE10	100	0.023	2.50	0.009
EW01	100	0.073	2.50	0.029
EW02	100	0.051	2.50	0.020
EW03	100	0.080	2.50	0.032
--	100	0.000	2.50	0.000
--	100	0.000	2.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-185
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to alpha-Chlordane**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	2.541	2.223	1.759	1.173	0.173	0.347	0.000	0.087	0.000	0.025
EE02	0.000	0.009	2.302	2.015	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.280	0.245	1.759	1.173	0.173	0.347	0.000	0.069	0.000	0.025
EE04	0.000	0.004	0.316	0.277	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.096	0.004	776.691	679.604	1.759	1.173	0.173	0.347	0.000	7.332	0.000	0.025
EE06	0.000	0.004	0.187	0.164	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.282	0.246	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.136	0.119	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.045	0.039	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE10	0.000	0.009	0.447	0.391	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	2.517	2.203	1.759	1.173	0.173	0.347	0.000	0.086	0.000	0.025
EW02	0.000	0.017	1.340	1.173	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EW03	0.000	0.017	1.549	1.355	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.133	2.50	0.053
EE02	100	0.121	2.50	0.048
EE03	100	0.015	2.50	0.006
EE04	100	0.017	2.50	0.007
EE05	100	40.790	2.50	16.316
EE06	100	0.010	2.50	0.004
EE07	100	0.015	2.50	0.006
EE08	100	0.007	2.50	0.003
EE09	100	0.002	2.50	0.001
EE10	100	0.023	2.50	0.009
EW01	100	0.132	2.50	0.053
EW02	100	0.070	2.50	0.028
EW03	100	0.081	2.50	0.033
--	100	0.000	2.50	0.000
--	100	0.000	2.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-186
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to alpha-Chlordane**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	2.541	2.223	1.759	1.173	0.173	0.347	0.000	0.087	0.000	0.025
EE02	0.000	0.009	2.302	2.015	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.280	0.245	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.316	0.277	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.096	0.004	776.691	679.604	1.759	1.173	0.173	0.347	0.000	7.332	0.000	0.025
EE06	0.000	0.004	0.187	0.164	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.282	0.246	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.136	0.119	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.045	0.039	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE10	0.000	0.009	0.447	0.391	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	2.517	2.203	1.759	1.173	0.173	0.347	0.000	0.086	0.000	0.025
EW02	0.000	0.017	1.340	1.173	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EW03	0.000	0.017	1.549	1.355	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.133	2.50	0.053
EE02	100	0.121	2.50	0.048
EE03	100	0.015	2.50	0.006
EE04	100	0.017	2.50	0.007
EE05	100	40.790	2.50	16.316
EE06	100	0.010	2.50	0.004
EE07	100	0.015	2.50	0.006
EE08	100	0.007	2.50	0.003
EE09	100	0.002	2.50	0.001
EE10	100	0.023	2.50	0.009
EW01	100	0.132	2.50	0.053
EW02	100	0.070	2.50	0.028
EW03	100	0.081	2.50	0.033
--	100	0.000	2.50	0.000
--	100	0.000	2.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-187
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to alpha-Chlordane

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.03	0.00	0.00	99.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE02	0.03	0.00	0.00	99.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE03	0.03	0.00	0.00	99.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
EE04	0.03	0.00	0.00	99.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
EE05	0.03	0.00	0.00	99.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE06	0.03	0.00	0.00	99.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE07	0.03	0.00	0.00	99.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE08	0.03	0.00	0.00	99.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
EE09	0.03	0.00	0.00	99.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
EE10	0.03	0.00	0.00	99.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EW01	0.03	0.00	0.00	99.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EW02	0.03	0.00	0.00	99.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EW03	0.03	0.00	0.00	99.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	0.03	0.00	0.00	99.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04

**TABLE I-188
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Dieldrin**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.019	0.017	0.164	0.144	0.001	0.001	0.001	0.002	0.000	0.088	0.000	0.050
EE02	0.033	0.017	0.280	0.245	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE03	0.002	0.017	0.021	0.018	0.001	0.001	0.001	0.002	0.000	0.010	0.000	0.050
EE04	0.004	0.008	0.038	0.033	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	16.280	0.000	0.061
EE06	0.003	0.008	0.023	0.020	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.003	0.007	0.025	0.022	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE08	0.021	0.017	0.175	0.153	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE09	0.000	0.017	0.004	0.004	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE10	0.006	0.017	0.054	0.047	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.020	0.033	0.173	0.151	0.001	0.001	0.001	0.002	0.000	0.100	0.000	0.050
EW02	0.014	0.033	0.120	0.105	0.001	0.001	0.001	0.002	0.000	0.012	0.000	0.061
EW03	0.023	0.033	0.195	0.171	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	100	0.011	0.09	0.128	
EE02	100	0.019	0.09	0.219	
EE03	100	0.001	0.09	0.017	
EE04	100	0.003	0.09	0.030	
EE05	100	0.427	0.09	4.827	
EE06	100	0.002	0.09	0.018	
EE07	100	0.002	0.09	0.020	
EE08	100	0.012	0.09	0.137	
EE09	100	0.000	0.09	0.003	
EE10	100	0.004	0.09	0.042	
EW01	100	0.012	0.09	0.135	
EW02	100	0.008	0.09	0.094	
EW03	100	0.013	0.09	0.152	
--	100	0.000	0.09	0.000	
--	100	0.000	0.09	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-189
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Dieldrin**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.019	0.017	0.164	0.144	0.001	0.001	0.001	0.002	0.000	0.088	0.000	0.050
EE02	0.033	0.017	0.280	0.245	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE03	0.002	0.017	0.021	0.018	0.001	0.001	0.001	0.002	0.000	0.010	0.000	0.050
EE04	0.004	0.008	0.038	0.033	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	16.280	0.000	0.061
EE06	0.003	0.008	0.023	0.020	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.003	0.007	0.025	0.022	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE08	0.021	0.017	0.175	0.153	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE09	0.000	0.017	0.004	0.004	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE10	0.006	0.017	0.054	0.047	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.020	0.033	0.173	0.151	0.001	0.001	0.001	0.002	0.000	0.100	0.000	0.050
EW02	0.014	0.033	0.120	0.105	0.001	0.001	0.001	0.002	0.000	0.012	0.000	0.061
EW03	0.023	0.033	0.195	0.171	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.011	0.88	0.013
EE02	100	0.019	0.88	0.022
EE03	100	0.001	0.88	0.002
EE04	100	0.003	0.88	0.003
EE05	100	0.427	0.88	0.483
EE06	100	0.002	0.88	0.002
EE07	100	0.002	0.88	0.002
EE08	100	0.012	0.88	0.014
EE09	100	0.000	0.88	0.000
EE10	100	0.004	0.88	0.004
EW01	100	0.012	0.88	0.014
EW02	100	0.008	0.88	0.009
EW03	100	0.013	0.88	0.015
--	100	0.000	0.88	0.000
--	100	0.000	0.88	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-190
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Dieldrin**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.037	0.017	0.313	0.273	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE02	0.035	0.017	0.297	0.260	0.001	0.001	0.001	0.002	0.000	0.167	0.000	0.050
EE03	0.004	0.017	0.035	0.031	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE04	0.005	0.008	0.039	0.034	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	17.940	0.000	0.072
EE06	0.003	0.008	0.024	0.021	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.004	0.007	0.036	0.031	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE08	0.039	0.017	0.336	0.294	0.001	0.001	0.001	0.002	0.000	0.033	0.000	0.050
EE09	0.001	0.017	0.006	0.005	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE10	0.007	0.017	0.056	0.049	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.037	0.033	0.313	0.274	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EW02	0.019	0.033	0.166	0.145	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.072
EW03	0.024	0.033	0.200	0.175	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.022	0.09	0.244
EE02	100	0.021	0.09	0.232
EE03	100	0.002	0.09	0.028
EE04	100	0.003	0.09	0.030
EE05	100	0.427	0.09	4.827
EE06	100	0.002	0.09	0.019
EE07	100	0.002	0.09	0.028
EE08	100	0.023	0.09	0.262
EE09	100	0.000	0.09	0.004
EE10	100	0.004	0.09	0.044
EW01	100	0.022	0.09	0.244
EW02	100	0.011	0.09	0.129
EW03	100	0.014	0.09	0.156
--	100	0.000	0.09	0.000
--	100	0.000	0.09	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-191
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Dieldrin**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.037	0.017	0.313	0.273	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE02	0.035	0.017	0.297	0.260	0.001	0.001	0.001	0.002	0.000	0.167	0.000	0.050
EE03	0.004	0.017	0.035	0.031	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE04	0.005	0.008	0.039	0.034	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	17.940	0.000	0.072
EE06	0.003	0.008	0.024	0.021	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.004	0.007	0.036	0.031	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE08	0.039	0.017	0.336	0.294	0.001	0.001	0.001	0.002	0.000	0.033	0.000	0.050
EE09	0.001	0.017	0.006	0.005	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE10	0.007	0.017	0.056	0.049	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.037	0.033	0.313	0.274	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EW02	0.019	0.033	0.166	0.145	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.072
EW03	0.024	0.033	0.200	0.175	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.022	0.88	0.074
EE02	100	0.021	0.88	0.073
EE03	100	0.002	0.88	0.003
EE04	100	0.003	0.88	0.003
EE05	100	0.427	0.88	0.483
EE06	100	0.002	0.88	0.002
EE07	100	0.002	0.88	0.003
EE08	100	0.023	0.88	0.026
EE09	100	0.000	0.88	0.000
EE10	100	0.004	0.88	0.004
EW01	100	0.022	0.88	0.024
EW02	100	0.011	0.88	0.013
EW03	100	0.014	0.88	0.016
--	100	0.000	0.88	0.000
--	100	0.000	0.88	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-192
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Dieldrin

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	23.84	0.00	0.00	76.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
EE02	23.85	0.00	0.00	76.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE03	23.73	0.00	0.00	75.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55
EE04	23.79	0.00	0.00	75.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
EE05	23.86	0.00	0.00	76.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE06	23.74	0.00	0.00	75.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
EE07	23.75	0.00	0.00	75.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
EE08	23.84	0.00	0.00	76.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
EE09	23.22	0.00	0.00	74.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.69
EE10	23.81	0.00	0.00	75.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
EW01	23.84	0.00	0.00	76.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
EW02	23.83	0.00	0.00	76.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
EW03	23.84	0.00	0.00	76.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
Average	23.76	0.00	0.00	75.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40

TABLE I-193
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Heptachlor

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.078	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.078	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.078	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.078	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.078	91.253	79.847	0.066	0.044	0.020	0.041	0.000	2.964	0.000	0.025
EE06	0.001	0.078	0.352	0.308	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE07	0.001	0.013	0.403	0.352	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EE08	0.003	0.042	1.097	0.960	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE09	0.000	0.042	0.025	0.022	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.007	0.042	2.510	2.196	0.066	0.044	0.020	0.041	0.000	0.026	0.000	0.025
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	100	0.027	0.20	0.137	
EE02	100	0.044	0.20	0.227	
EE03	100	0.003	0.20	0.017	
EE04	100	0.006	0.20	0.031	
EE05	100	4.824	0.20	24.739	
EE06	100	0.019	0.20	0.095	
EE07	100	0.021	0.20	0.109	
EE08	100	0.038	0.20	0.298	
EE09	100	0.001	0.20	0.007	
EE10	100	0.133	0.20	0.680	
EW01	100	0.028	0.20	0.143	
EW02	100	0.019	0.20	0.099	
EW03	100	0.031	0.20	0.157	
--	100	0.000	0.20	0.000	
--	100	0.000	0.20	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-194
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Heptachlor**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.078	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.078	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.078	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.078	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.078	91.253	79.847	0.066	0.044	0.020	0.041	0.000	2.964	0.000	0.025
EE06	0.001	0.078	0.352	0.308	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE07	0.001	0.013	0.403	0.352	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EE08	0.003	0.042	1.097	0.960	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE09	0.000	0.042	0.025	0.022	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.007	0.042	2.510	2.196	0.066	0.044	0.020	0.041	0.000	0.026	0.000	0.025
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.027	1.95	0.014
EE02	100	0.044	1.95	0.023
EE03	100	0.003	1.95	0.002
EE04	100	0.006	1.95	0.003
EE05	100	4.824	1.95	2.474
EE06	100	0.019	1.95	0.010
EE07	100	0.021	1.95	0.011
EE08	100	0.038	1.95	0.030
EE09	100	0.001	1.95	0.001
EE10	100	0.133	1.95	0.068
EW01	100	0.028	1.95	0.014
EW02	100	0.019	1.95	0.010
EW03	100	0.031	1.95	0.016
--	100	0.000	1.95	0.000
--	100	0.000	1.95	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-195
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Heptachlor**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	0.081	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.081	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.081	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.081	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.081	91.253	79.847	0.066	0.044	0.020	0.041	0.000	3.354	0.000	0.025
EE06	0.002	0.081	0.637	0.557	0.066	0.044	0.020	0.041	0.000	0.037	0.000	0.025
EE07	0.002	0.016	0.758	0.664	0.066	0.044	0.020	0.041	0.000	0.012	0.000	0.025
EE08	0.006	0.042	2.143	1.875	0.066	0.044	0.020	0.041	0.000	0.042	0.000	0.025
EE09	0.000	0.042	0.033	0.029	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.009	0.042	3.552	3.108	0.066	0.044	0.020	0.041	0.000	0.036	0.000	0.025
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.051	0.20	0.262
EE02	100	0.046	0.20	0.237
EE03	100	0.006	0.20	0.029
EE04	100	0.006	0.20	0.033
EE05	100	4.824	0.20	24.739
EE06	100	0.034	0.20	0.173
EE07	100	0.040	0.20	0.206
EE08	100	0.113	0.20	0.581
EE09	100	0.002	0.20	0.009
EE10	100	0.188	0.20	0.963
EW01	100	0.051	0.20	0.259
EW02	100	0.027	0.20	0.138
EW03	100	0.031	0.20	0.160
--	100	0.000	0.20	0.000
--	100	0.000	0.20	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-196
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Heptachlor**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.003	0.081	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.081	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.081	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.081	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.081	91.253	79.847	0.066	0.044	0.020	0.041	0.000	3.354	0.000	0.025
EE06	0.002	0.081	0.637	0.557	0.066	0.044	0.020	0.041	0.000	0.037	0.000	0.025
EE07	0.002	0.016	0.758	0.664	0.066	0.044	0.020	0.041	0.000	0.012	0.000	0.025
EE08	0.006	0.042	2.143	1.875	0.066	0.044	0.020	0.041	0.000	0.042	0.000	0.025
EE09	0.000	0.042	0.033	0.029	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.009	0.042	3.552	3.108	0.066	0.044	0.020	0.041	0.000	0.036	0.000	0.025
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.051	1.95	0.026
EE02	100	0.046	1.95	0.024
EE03	100	0.006	1.95	0.003
EE04	100	0.006	1.95	0.003
EE05	100	4.824	1.95	2.474
EE06	100	0.034	1.95	0.017
EE07	100	0.040	1.95	0.021
EE08	100	0.113	1.95	0.058
EE09	100	0.002	1.95	0.001
EE10	100	0.188	1.95	0.096
EW01	100	0.051	1.95	0.026
EW02	100	0.027	1.95	0.014
EW03	100	0.031	1.95	0.016
--	100	0.000	1.95	0.000
--	100	0.000	1.95	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-197
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Heptachlor

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.69	0.00	0.00	99.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE02	0.69	0.00	0.00	99.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE03	0.69	0.00	0.00	99.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
EE04	0.69	0.00	0.00	99.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
EE05	0.69	0.00	0.00	99.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE06	0.69	0.00	0.00	99.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE07	0.69	0.00	0.00	99.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE08	0.69	0.00	0.00	99.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE09	0.69	0.00	0.00	99.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
EE10	0.69	0.00	0.00	99.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EW01	0.69	0.00	0.00	99.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EW02	0.69	0.00	0.00	99.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EW03	0.69	0.00	0.00	99.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Average	0.69	0.00	0.00	99.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05

TABLE I-198
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Heptachlor epoxide

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.009	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.009	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.113	0.004	43.580	38.132	0.066	0.044	0.020	0.041	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.069	0.061	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.077	0.067	0.066	0.044	0.020	0.041	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.047	0.041	0.217	0.145	0.067	0.134	0.000	0.001	0.000	0.083
EE09	0.000	0.009	0.013	0.011	0.162	0.108	0.050	0.100	0.000	0.001	0.000	0.062
EE10	0.000	0.009	0.164	0.144	0.112	0.075	0.035	0.069	0.000	0.002	0.000	0.043
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.027	0.01	2.140
EE02	100	0.044	0.01	3.534
EE03	100	0.003	0.01	0.270
EE04	100	0.006	0.01	0.485
EE05	100	2.304	0.01	184.305
EE06	100	0.004	0.01	0.293
EE07	100	0.004	0.01	0.326
EE08	100	0.003	0.01	0.202
EE09	100	0.001	0.01	0.055
EE10	100	0.009	0.01	0.695
EW01	100	0.028	0.01	2.236
EW02	100	0.019	0.01	1.547
EW03	100	0.031	0.01	2.433
--	100	0.000	0.01	0.000
--	100	0.000	0.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-199
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Heptachlor epoxide

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.009	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.009	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.113	0.004	43.380	38.132	0.066	0.044	0.020	0.041	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.069	0.061	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.077	0.067	0.066	0.044	0.020	0.041	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.047	0.041	0.217	0.145	0.067	0.134	0.000	0.001	0.000	0.083
EE09	0.000	0.009	0.013	0.011	0.162	0.108	0.050	0.100	0.000	0.001	0.000	0.062
EE10	0.000	0.009	0.164	0.144	0.112	0.075	0.035	0.069	0.000	0.002	0.000	0.043
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.027	0.02	1.529
EE02	100	0.044	0.02	2.524
EE03	100	0.003	0.02	0.193
EE04	100	0.006	0.02	0.347
EE05	100	2.304	0.02	131.647
EE06	100	0.004	0.02	0.209
EE07	100	0.004	0.02	0.233
EE08	100	0.003	0.02	0.144
EE09	100	0.001	0.02	0.039
EE10	100	0.009	0.02	0.496
EW01	100	0.028	0.02	1.597
EW02	100	0.019	0.02	1.105
EW03	100	0.031	0.02	1.752
--	100	0.000	0.02	0.000
--	100	0.000	0.02	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-200
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Heptachlor epoxide

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	0.009	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.009	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.119	0.004	45.655	39.948	0.066	0.044	0.020	0.041	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.071	0.062	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.107	0.094	0.066	0.044	0.020	0.041	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.052	0.045	0.368	0.246	0.114	0.228	0.000	0.001	0.000	0.140
EE09	0.000	0.009	0.017	0.015	0.258	0.172	0.080	0.160	0.000	0.002	0.000	0.098
EE10	0.000	0.009	0.170	0.149	0.158	0.105	0.049	0.098	0.000	0.002	0.000	0.060
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.051	0.01	4.086
EE02	100	0.046	0.01	3.702
EE03	100	0.006	0.01	0.450
EE04	100	0.006	0.01	0.509
EE05	100	2.414	0.01	193.082
EE06	100	0.004	0.01	0.301
EE07	100	0.006	0.01	0.453
EE08	100	0.003	0.01	0.220
EE09	100	0.001	0.01	0.073
EE10	100	0.009	0.01	0.719
EW01	100	0.051	0.01	4.048
EW02	100	0.027	0.01	2.156
EW03	100	0.031	0.01	2.491
--	100	0.000	0.01	0.000
--	100	0.000	0.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiler/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-201
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Heptachlor epoxide**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	0.009	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.009	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.119	0.004	45.655	39.948	0.066	0.044	0.020	0.041	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.071	0.062	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.107	0.094	0.066	0.044	0.020	0.041	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.052	0.045	0.368	0.246	0.114	0.228	0.000	0.001	0.000	0.140
EE09	0.000	0.009	0.017	0.015	0.258	0.172	0.080	0.160	0.000	0.002	0.000	0.098
EE10	0.000	0.009	0.170	0.149	0.158	0.105	0.049	0.098	0.000	0.002	0.000	0.060
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	100	0.051	0.02	2.919	
EE02	100	0.046	0.02	2.644	
EE03	100	0.006	0.02	0.321	
EE04	100	0.006	0.02	0.363	
EE05	100	2.414	0.02	137.915	
EE06	100	0.004	0.02	0.215	
EE07	100	0.006	0.02	0.324	
EE08	100	0.003	0.02	0.157	
EE09	100	0.001	0.02	0.052	
EE10	100	0.009	0.02	0.514	
EW01	100	0.051	0.02	2.891	
EW02	100	0.027	0.02	1.540	
EW03	100	0.031	0.02	1.779	
--	100	0.000	0.02	0.000	
--	100	0.000	0.02	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-202
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Red-Winged Blackbird exposed to Heptachlor epoxide

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.69	0.00	0.00	99.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE02	0.69	0.00	0.00	99.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE03	0.69	0.00	0.00	99.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
EE04	0.69	0.00	0.00	99.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
EE05	0.69	0.00	0.00	99.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE06	0.69	0.00	0.00	99.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
EE07	0.69	0.00	0.00	99.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
EE08	0.69	0.00	0.00	98.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52
EE09	0.68	0.00	0.00	97.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44
EE10	0.69	0.00	0.00	99.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
EW01	0.69	0.00	0.00	99.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EW02	0.69	0.00	0.00	99.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EW03	0.69	0.00	0.00	99.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Average	0.69	0.00	0.00	99.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19

**TABLE I-203
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Endosulfan Sulfate**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)													
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)	
EE01	0.009	0.017	0.385	0.337	0.010	0.006	0.006	0.011	0.000	0.088	0.000	0.050	
EE02	0.016	0.017	0.657	0.375	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050	
EE03	0.001	0.017	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.011	0.000	0.050	
EE04	0.002	0.008	0.089	0.078	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050	
EE05	1.002	0.008	42.465	37.157	0.010	0.006	0.006	0.011	0.000	2.126	0.000	0.050	
EE06	0.001	0.008	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050	
EE07	0.001	0.007	0.059	0.052	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050	
EE08	0.001	0.017	0.037	0.032	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050	
EE09	0.000	0.017	0.010	0.009	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050	
EE10	0.003	0.017	0.126	0.110	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050	
EW01	0.010	0.033	0.406	0.355	0.010	0.006	0.006	0.011	0.000	0.100	0.000	0.050	
EW02	0.007	0.033	0.282	0.247	0.010	0.006	0.006	0.011	0.000	0.012	0.000	0.050	
EW03	0.011	0.033	0.457	0.400	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050	
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

HAZARD QUOTIENTS BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	100	0.021	1.01	0.021	
EE02	100	0.037	1.01	0.036	
EE03	100	0.003	1.01	0.003	
EE04	100	0.005	1.01	0.005	
EE05	100	2.370	1.01	2.346	
EE06	100	0.003	1.01	0.003	
EE07	100	0.003	1.01	0.003	
EE08	100	0.002	1.01	0.002	
EE09	100	0.001	1.01	0.001	
EE10	100	0.007	1.01	0.007	
EW01	100	0.023	1.01	0.022	
EW02	100	0.016	1.01	0.016	
EW03	100	0.026	1.01	0.025	
--	100	0.000	1.01	0.000	
--	100	0.000	1.01	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-204
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Endosulfan Sulfate

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.009	0.017	0.385	0.337	0.010	0.006	0.006	0.011	0.000	0.088	0.000	0.050
EE02	0.016	0.017	0.657	0.575	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE03	0.001	0.017	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.011	0.000	0.050
EE04	0.002	0.008	0.089	0.078	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.002	0.008	42.465	37.157	0.010	0.006	0.006	0.011	0.000	2.126	0.000	0.050
EE06	0.001	0.008	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.001	0.007	0.059	0.052	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE08	0.001	0.017	0.037	0.032	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.010	0.009	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE10	0.003	0.017	0.126	0.110	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.010	0.033	0.406	0.355	0.010	0.006	0.006	0.011	0.000	0.100	0.000	0.050
EW02	0.007	0.033	0.282	0.247	0.010	0.006	0.006	0.011	0.000	0.012	0.000	0.050
EW03	0.011	0.033	0.457	0.400	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.021	10.10	0.002
EE02	100	0.037	10.10	0.004
EE03	100	0.003	10.10	0.000
EE04	100	0.005	10.10	0.000
EE05	100	2.370	10.10	0.235
EE06	100	0.003	10.10	0.000
EE07	100	0.003	10.10	0.000
EE08	100	0.002	10.10	0.000
EE09	100	0.001	10.10	0.000
EE10	100	0.007	10.10	0.001
EW01	100	0.023	10.10	0.002
EW02	100	0.016	10.10	0.002
EW03	100	0.026	10.10	0.003
--	100	0.000	10.10	0.000
--	100	0.000	10.10	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-205
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Endosulfan Sulfate**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (eg/L)
EE01	0.017	0.017	0.733	0.641	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE02	0.016	0.017	0.697	0.610	0.010	0.006	0.006	0.011	0.000	0.167	0.000	0.050
EE03	0.002	0.017	0.083	0.072	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EE04	0.002	0.008	0.091	0.080	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.168	0.008	49.486	43.300	0.010	0.006	0.006	0.011	0.000	2.614	0.000	0.050
EE06	0.001	0.008	0.057	0.050	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.002	0.007	0.083	0.073	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE08	0.001	0.017	0.039	0.034	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.013	0.012	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE10	0.003	0.017	0.131	0.114	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.017	0.033	0.734	0.642	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EW02	0.009	0.033	0.388	0.340	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EW03	0.011	0.033	0.469	0.410	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.041	1.01	0.040
EE02	100	0.039	1.01	0.039
EE03	100	0.005	1.01	0.005
EE04	100	0.005	1.01	0.005
EE05	100	2.762	1.01	2.734
EE06	100	0.003	1.01	0.003
EE07	100	0.005	1.01	0.005
EE08	100	0.002	1.01	0.002
EE09	100	0.001	1.01	0.001
EE10	100	0.007	1.01	0.007
EW01	100	0.041	1.01	0.041
EW02	100	0.022	1.01	0.021
EW03	100	0.026	1.01	0.026
--	100	0.000	1.01	0.000
--	100	0.000	1.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

TABLE I-206
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Endosulfan Sulfate

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.017	0.017	0.733	0.641	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE02	0.016	0.017	0.697	0.610	0.010	0.006	0.006	0.011	0.000	0.167	0.000	0.050
EE03	0.002	0.017	0.083	0.072	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EE04	0.002	0.008	0.091	0.080	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.168	0.008	49.486	43.300	0.010	0.006	0.006	0.011	0.000	2.614	0.000	0.050
EE06	0.001	0.008	0.057	0.050	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.002	0.007	0.083	0.073	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE08	0.001	0.017	0.039	0.034	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.013	0.012	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE10	0.003	0.017	0.131	0.114	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.017	0.033	0.734	0.642	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EW02	0.009	0.033	0.388	0.340	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EW03	0.011	0.033	0.469	0.410	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.041	10.10	0.004
EE02	100	0.039	10.10	0.004
EE03	100	0.005	10.10	0.000
EE04	100	0.005	10.10	0.001
EE05	100	2.762	10.10	0.273
EE06	100	0.003	10.10	0.000
EE07	100	0.005	10.10	0.000
EE08	100	0.002	10.10	0.000
EE09	100	0.001	10.10	0.000
EE10	100	0.007	10.10	0.001
EW01	100	0.041	10.10	0.004
EW02	100	0.022	10.10	0.002
EW03	100	0.026	10.10	0.003
--	100	0.000	10.10	0.000
--	100	0.000	10.10	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-207
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Endosulfan Sulfate

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	5.92	0.00	0.00	94.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EE02	5.92	0.00	0.00	94.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE03	5.90	0.00	0.00	93.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
EE04	5.91	0.00	0.00	93.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
EE05	5.92	0.00	0.00	94.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE06	5.90	0.00	0.00	93.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
EE07	5.91	0.00	0.00	93.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
EE08	5.90	0.00	0.00	93.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
EE09	5.84	0.00	0.00	92.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44
EE10	5.91	0.00	0.00	93.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
EW01	5.92	0.00	0.00	94.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
EW02	5.92	0.00	0.00	94.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
EW03	5.92	0.00	0.00	94.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Average	5.91	0.00	0.00	93.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23

**TABLE I-208
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Benzidine**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	1.349	1.250	8.963	8.963	0.175	0.175	0.175	0.175	0.000	3.888	0.000	25.000
EE02	2.168	1.250	14.408	14.408	0.175	0.175	0.175	0.175	0.000	6.404	0.000	25.000
EE03	1.533	1.250	10.188	10.188	0.175	0.175	0.175	0.175	0.000	3.767	0.000	25.000
EE04	1.080	5.000	7.174	7.174	0.175	0.175	0.175	0.175	0.000	1.243	0.000	25.000
EE05	15.128	5.000	100.527	100.527	0.175	0.175	0.175	0.175	0.000	9.355	0.000	25.000
EE06	2.020	5.000	13.423	13.423	0.175	0.175	0.175	0.175	0.000	3.703	0.000	25.000
EE07	2.349	5.000	15.607	15.607	0.175	0.175	0.175	0.175	0.000	1.244	0.000	25.000
EE08	4.473	5.000	29.725	29.725	0.175	0.175	0.175	0.175	0.000	2.495	0.000	25.000
EE09	0.406	5.000	2.700	2.700	0.175	0.175	0.175	0.175	0.000	1.263	0.000	25.000
EE10	3.878	5.000	25.771	25.771	0.175	0.175	0.175	0.175	0.000	1.254	0.000	25.000
EW01	0.692	5.000	4.599	4.599	0.175	0.175	0.175	0.175	0.000	2.520	0.000	25.000
EW02	2.261	5.000	15.027	15.027	0.175	0.175	0.175	0.175	0.000	1.234	0.000	25.000
EW03	5.723	5.000	38.033	38.033	0.175	0.175	0.175	0.175	0.000	1.274	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.731	1.60	0.457
EE02	100	1.172	1.60	0.733
EE03	100	0.830	1.60	0.519
EE04	100	0.586	1.60	0.366
EE05	100	8.154	1.60	5.096
EE06	100	1.092	1.60	0.683
EE07	100	1.269	1.60	0.793
EE08	100	2.414	1.60	1.509
EE09	100	0.223	1.60	0.139
EE10	100	2.093	1.60	1.308
EW01	100	0.377	1.60	0.236
EW02	100	1.222	1.60	0.764
EW03	100	3.087	1.60	1.930
--	100	0.000	1.60	0.000
--	100	0.000	1.60	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-209
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Benzidine**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	1.349	1.250	8.963	8.963	0.175	0.175	0.175	0.175	0.000	3.888	0.000	25.000
EE02	2.168	1.250	14.408	14.408	0.175	0.175	0.175	0.175	0.000	6.404	0.000	25.000
EE03	1.533	1.250	10.188	10.188	0.175	0.175	0.175	0.175	0.000	3.767	0.000	25.000
EE04	1.080	5.000	7.174	7.174	0.175	0.175	0.175	0.175	0.000	1.243	0.000	25.000
EE05	1.5128	5.000	100.527	100.527	0.175	0.175	0.175	0.175	0.000	9.355	0.000	25.000
EE06	2.020	5.000	13.423	13.423	0.175	0.175	0.175	0.175	0.000	3.703	0.000	25.000
EE07	2.349	5.000	15.607	15.607	0.175	0.175	0.175	0.175	0.000	1.244	0.000	25.000
EE08	4.473	5.000	29.725	29.725	0.175	0.175	0.175	0.175	0.000	2.495	0.000	25.000
EE09	0.406	5.000	2.700	2.700	0.175	0.175	0.175	0.175	0.000	1.263	0.000	25.000
EE10	3.878	5.000	25.771	25.771	0.175	0.175	0.175	0.175	0.000	1.254	0.000	25.000
EW01	0.692	5.000	4.599	4.599	0.175	0.175	0.175	0.175	0.000	2.520	0.000	25.000
EW02	2.261	5.000	15.027	15.027	0.175	0.175	0.175	0.175	0.000	1.234	0.000	25.000
EW03	5.723	5.000	38.033	38.033	0.175	0.175	0.175	0.175	0.000	1.274	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.731	16.00	0.046
EE02	100	1.172	16.00	0.073
EE03	100	0.830	16.00	0.052
EE04	100	0.386	16.00	0.037
EE05	100	8.154	16.00	0.510
EE06	100	1.092	16.00	0.068
EE07	100	1.269	16.00	0.079
EE08	100	2.414	16.00	0.151
EE09	100	0.223	16.00	0.014
EE10	100	2.093	16.00	0.131
EW01	100	0.377	16.00	0.024
EW02	100	1.222	16.00	0.076
EW03	100	3.087	16.00	0.193
--	100	0.000	16.00	0.000
--	100	0.000	16.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

TABLE I-210
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to Benzidine

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.236	1.250	14.857	14.857	0.175	0.175	0.175	0.175	0.000	6.225	0.000	25.000
EE02	4.254	1.250	28.268	28.268	0.175	0.175	0.175	0.175	0.000	12.540	0.000	25.000
EE03	2.067	1.250	13.736	13.736	0.175	0.175	0.175	0.175	0.000	5.040	0.000	25.000
EE04	1.097	5.000	7.291	7.291	0.175	0.175	0.175	0.175	0.000	1.245	0.000	25.000
EE05	19.498	5.000	129.569	129.569	0.175	0.175	0.175	0.175	0.000	12.470	0.000	25.000
EE06	3.397	5.000	22.574	22.574	0.175	0.175	0.175	0.175	0.000	6.160	0.000	25.000
EE07	2.529	5.000	16.807	16.807	0.175	0.175	0.175	0.175	0.000	1.245	0.000	25.000
EE08	4.874	5.000	32.387	32.387	0.175	0.175	0.175	0.175	0.000	2.519	0.000	25.000
EE09	0.406	5.000	2.700	2.700	0.175	0.175	0.175	0.175	0.000	1.271	0.000	25.000
EE10	4.003	5.000	26.602	26.602	0.175	0.175	0.175	0.175	0.000	1.260	0.000	25.000
EW01	0.908	5.000	6.031	6.031	0.175	0.175	0.175	0.175	0.000	2.320	0.000	25.000
EW02	2.369	5.000	15.743	15.743	0.175	0.175	0.175	0.175	0.000	1.238	0.000	25.000
EW03	5.914	5.000	39.301	39.301	0.175	0.175	0.175	0.175	0.000	1.276	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
LOCATION	Area		TRV (NOAEL)	HAZARD QUOTIENT
	Use Factor	Applied Daily Dose		
EE01	100	1.208	1.60	0.755
EE02	100	2.296	1.60	1.435
EE03	100	0.905	1.60	0.565
EE04	100	0.588	1.60	0.368
EE05	100	8.765	1.60	5.478
EE06	100	1.285	1.60	0.803
EE07	100	1.295	1.60	0.809
EE08	100	2.470	1.60	1.544
EE09	100	0.223	1.60	0.139
EE10	100	2.111	1.60	1.319
EW01	100	0.407	1.60	0.254
EW02	100	1.237	1.60	0.773
EW03	100	3.114	1.60	1.946
--	100	0.000	1.60	0.000
--	100	0.000	1.60	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-211
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to Benzidine**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.236	1.250	14.857	14.857	0.175	0.175	0.175	0.175	0.000	6.225	0.000	25.000
EE02	4.234	1.250	28.268	28.268	0.175	0.175	0.175	0.175	0.000	12.540	0.000	25.000
EE03	2.067	1.250	13.736	13.736	0.175	0.175	0.175	0.175	0.000	5.040	0.000	25.000
EE04	1.097	5.000	7.291	7.291	0.175	0.175	0.175	0.175	0.000	1.245	0.000	25.000
EE05	19.498	5.000	129.569	129.569	0.175	0.175	0.175	0.175	0.000	12.470	0.000	25.000
EE06	3.397	5.000	22.574	22.574	0.175	0.175	0.175	0.175	0.000	6.160	0.000	25.000
EE07	2.529	5.000	16.807	16.807	0.175	0.175	0.175	0.175	0.000	1.245	0.000	25.000
EE08	4.874	5.000	32.387	32.387	0.175	0.175	0.175	0.175	0.000	2.519	0.000	25.000
EE09	0.406	5.000	2.700	2.700	0.175	0.175	0.175	0.175	0.000	1.271	0.000	25.000
EE10	4.003	5.000	26.602	26.602	0.175	0.175	0.175	0.175	0.000	1.560	0.000	25.000
EW01	0.908	5.000	6.031	6.031	0.175	0.175	0.175	0.175	0.000	2.520	0.000	25.000
EW02	2.369	5.000	15.743	15.743	0.175	0.175	0.175	0.175	0.000	1.238	0.000	25.000
EW03	5.914	5.000	39.301	39.301	0.175	0.175	0.175	0.175	0.000	1.276	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	1.208	16.00	0.076
EE02	100	2.296	16.00	0.143
EE03	100	0.905	16.00	0.057
EE04	100	0.588	16.00	0.037
EE05	100	8.765	16.00	0.548
EE06	100	1.285	16.00	0.080
EE07	100	1.295	16.00	0.081
EE08	100	2.470	16.00	0.154
EE09	100	0.223	16.00	0.014
EE10	100	2.111	16.00	0.132
EW01	100	0.407	16.00	0.025
EW02	100	1.237	16.00	0.077
EW03	100	3.114	16.00	0.195
--	100	0.000	16.00	0.000
--	100	0.000	16.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-212
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Red-Winged Blackbird exposed to Benzidine

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	25.85	0.00	0.00	73.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55
EE02	25.90	0.00	0.00	73.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
EE03	25.86	0.00	0.00	73.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
EE04	25.81	0.00	0.00	73.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68
EE05	25.98	0.00	0.00	73.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
EE06	25.89	0.00	0.00	73.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
EE07	25.91	0.00	0.00	73.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
EE08	25.95	0.00	0.00	73.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
EE09	25.52	0.00	0.00	72.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79
EE10	25.94	0.00	0.00	73.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
EW01	25.71	0.00	0.00	73.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06
EW02	25.90	0.00	0.00	73.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
EW03	25.95	0.00	0.00	73.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
Average	25.86	0.00	0.00	73.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50

TABLE I-213
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to High MW PAHs

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.013	1.320	583.185	510.287	2873.077	1915.385	195.447	390.895	0.000	12.868	0.000	10.000
EE02	0.053	1.320	2423.548	2120.605	3591.347	2394.231	244.309	488.619	0.000	92.352	0.000	12.500
EE03	0.036	1.320	1637.862	1433.129	3591.347	2394.231	244.309	488.619	0.000	31.242	0.000	12.500
EE04	0.041	5.200	1867.674	1634.214	3591.347	2394.231	244.309	488.619	0.000	16.517	0.000	12.500
EE05	0.053	5.200	2423.548	2120.605	3979.212	2652.808	270.695	541.389	0.000	27.483	0.000	13.850
EE06	0.006	5.200	289.492	253.305	4309.616	2873.077	293.171	586.342	0.000	4.123	0.000	15.000
EE07	0.008	5.200	362.349	317.055	4309.616	2873.077	293.171	586.342	0.000	1.426	0.000	15.000
EE08	0.008	5.200	350.660	306.828	4309.616	2873.077	293.171	586.342	0.000	1.527	0.000	15.000
EE09	0.001	5.200	38.125	33.360	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EE10	0.007	5.200	324.826	284.223	4309.616	2873.077	293.171	586.342	0.000	0.812	0.000	15.000
EW01	0.003	5.200	158.006	138.256	4309.616	2873.077	293.171	586.342	0.000	4.291	0.000	15.000
EW02	0.007	5.200	328.280	287.245	4309.616	2873.077	293.171	586.342	0.000	1.395	0.000	15.000
EW03	0.014	5.200	634.788	555.439	4309.616	2873.077	293.171	586.342	0.000	1.132	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
LOCATION	Area		TRV (NOAEL)	HAZARD QUOTIENT	
	Use Factor	Applied Daily Dose			
EE01	100	30.621	4.40	6.959	
EE02	100	127.246	4.40	28.919	
EE03	100	85.995	4.40	19.544	
EE04	100	98.061	4.40	22.286	
EE05	100	127.246	4.40	28.920	
EE06	100	15.202	4.40	3.455	
EE07	100	19.027	4.40	4.324	
EE08	100	18.413	4.40	4.185	
EE09	100	2.004	4.40	0.455	
EE10	100	17.057	4.40	3.877	
EW01	100	8.298	4.40	1.886	
EW02	100	17.238	4.40	3.918	
EW03	100	33.331	4.40	7.575	
--	100	0.000	4.40	0.000	
--	100	0.000	4.40	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-214
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to High MW PAHs**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.013	1.320	583.185	510.287	2873.077	1915.385	195.447	390.895	0.000	12.868	0.000	10.000
EE02	0.053	1.320	2423.548	2120.605	3591.347	2394.231	244.309	488.619	0.000	92.352	0.000	12.500
EE03	0.036	1.320	1637.862	1433.129	3591.347	2394.231	244.309	488.619	0.000	31.242	0.000	12.500
EE04	0.041	5.200	1867.674	1634.214	3591.347	2394.231	244.309	488.619	0.000	16.517	0.000	12.500
EE05	0.053	5.200	2423.548	2120.605	3979.212	2652.808	270.695	541.389	0.000	27.483	0.000	13.850
EE06	0.006	5.200	289.492	253.305	4309.616	2873.077	293.171	586.342	0.000	4.123	0.000	15.000
EE07	0.008	5.200	362.349	317.055	4309.616	2873.077	293.171	586.342	0.000	1.426	0.000	15.000
EE08	0.008	5.200	350.660	306.828	4309.616	2873.077	293.171	586.342	0.000	1.527	0.000	15.000
EE09	0.001	5.200	38.125	33.360	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EE10	0.007	5.200	324.826	284.223	4309.616	2873.077	293.171	586.342	0.000	0.812	0.000	15.000
EW01	0.003	5.200	158.006	138.256	4309.616	2873.077	293.171	586.342	0.000	4.291	0.000	15.000
EW02	0.007	5.200	328.280	287.245	4309.616	2873.077	293.171	586.342	0.000	1.395	0.000	15.000
EW03	0.014	5.200	634.788	555.439	4309.616	2873.077	293.171	586.342	0.000	1.132	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	30.621	44.00	0.696
EE02	100	127.246	44.00	2.892
EE03	100	85.995	44.00	1.954
EE04	100	98.061	44.00	2.229
EE05	100	127.246	44.00	2.892
EE06	100	15.202	44.00	0.345
EE07	100	19.027	44.00	0.432
EE08	100	18.413	44.00	0.418
EE09	100	2.004	44.00	0.046
EE10	100	17.057	44.00	0.388
EW01	100	8.298	44.00	0.189
EW02	100	17.238	44.00	0.392
EW03	100	33.331	44.00	0.758
--	100	0.000	44.00	0.000
--	100	0.000	44.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

**TABLE I-215
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Red-Winged Blackbird exposed to High MW PAHs**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.023	1.320	1054.374	922.577	4309.616	2873.077	293.171	586.342	0.000	22.817	0.000	15.000
EE02	0.053	1.320	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	163.704	0.000	15.000
EE03	0.052	1.320	2363.170	2067.774	4309.616	2873.077	293.171	586.342	0.000	44.780	0.000	15.000
EE04	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	26.792	0.000	15.000
EE05	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	36.051	0.000	15.000
EE06	0.011	5.200	489.225	428.072	4309.616	2873.077	293.171	586.342	0.000	6.895	0.000	15.000
EE07	0.013	5.200	593.593	519.394	4309.616	2873.077	293.171	586.342	0.000	2.266	0.000	15.000
EE08	0.008	5.200	362.515	317.201	4309.616	2873.077	293.171	586.342	0.000	1.597	0.000	15.000
EE09	0.001	5.200	44.010	38.509	4309.616	2873.077	293.171	586.342	0.000	1.057	0.000	15.000
EE10	0.008	5.200	379.876	332.392	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EW01	0.005	5.200	225.765	197.544	4309.616	2873.077	293.171	586.342	0.000	4.872	0.000	15.000
EW02	0.007	5.200	328.834	287.730	4309.616	2873.077	293.171	586.342	0.000	1.455	0.000	15.000
EW03	0.026	5.200	1171.387	1024.964	4309.616	2873.077	293.171	586.342	0.000	2.100	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	55.360	4.40	12.582
EE02	100	127.246	4.40	28.920
EE03	100	124.076	4.40	28.199
EE04	100	127.246	4.40	28.920
EE05	100	127.246	4.40	28.920
EE06	100	25.688	4.40	5.838
EE07	100	31.168	4.40	7.084
EE08	100	19.036	4.40	4.326
EE09	100	2.313	4.40	0.526
EE10	100	19.947	4.40	4.533
EW01	100	11.856	4.40	2.694
EW02	100	17.267	4.40	3.924
EW03	100	61.504	4.40	13.978
--	100	0.000	4.40	0.000
--	100	0.000	4.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-216
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Red-Winged Blackbird exposed to High MW PAHs

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.023	1.320	1054.374	922.577	4309.616	2873.077	293.171	586.342	0.000	22.817	0.000	15.000
EE02	0.053	1.320	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	163.704	0.000	15.000
EE03	0.052	1.320	2363.170	2067.774	4309.616	2873.077	293.171	586.342	0.000	44.780	0.000	15.000
EE04	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	26.792	0.000	15.000
EE05	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	36.051	0.000	15.000
EE06	0.011	5.200	489.225	428.072	4309.616	2873.077	293.171	586.342	0.000	6.895	0.000	15.000
EE07	0.013	5.200	593.593	519.394	4309.616	2873.077	293.171	586.342	0.000	2.266	0.000	15.000
EE08	0.008	5.200	362.515	317.201	4309.616	2873.077	293.171	586.342	0.000	1.597	0.000	15.000
EE09	0.001	5.200	44.010	38.509	4309.616	2873.077	293.171	586.342	0.000	1.057	0.000	15.000
EE10	0.008	5.200	379.876	332.392	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EW01	0.005	5.200	225.765	197.544	4309.616	2873.077	293.171	586.342	0.000	4.872	0.000	15.000
EW02	0.007	5.200	328.834	287.730	4309.616	2873.077	293.171	586.342	0.000	1.455	0.000	15.000
EW03	0.026	5.200	1171.387	1024.964	4309.616	2873.077	293.171	586.342	0.000	2.100	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	100	55.360	44.00	1.258	
EE02	100	127.246	44.00	2.892	
EE03	100	124.076	44.00	2.820	
EE04	100	127.246	44.00	2.892	
EE05	100	127.246	44.00	2.892	
EE06	100	25.688	44.00	0.584	
EE07	100	31.168	44.00	0.708	
EE08	100	19.036	44.00	0.433	
EE09	100	2.313	44.00	0.053	
EE10	100	19.947	44.00	0.453	
EW01	100	11.856	44.00	0.269	
EW02	100	17.267	44.00	0.392	
EW03	100	61.504	44.00	1.398	
--	100	0.000	44.00	0.000	
--	100	0.000	44.00	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.1
Food Ingestion Rate (kg/day)	0.010
Sediment Ingestion Rate (kg/day)	0.000
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.008

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	70
Crayfish	0
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	30
Reptiles/ Amphibians	0
Birds	0
Mammals	0
Fish	0
Other Items	0

TABLE I-217
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Red-Winged Blackbird exposed to High MW PAHs

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.01	0.00	0.00	99.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE02	0.01	0.00	0.00	99.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE03	0.01	0.00	0.00	99.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE04	0.01	0.00	0.00	99.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE05	0.01	0.00	0.00	99.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE06	0.01	0.00	0.00	99.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
EE07	0.01	0.00	0.00	99.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE08	0.01	0.00	0.00	99.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EE09	0.01	0.00	0.00	99.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
EE10	0.01	0.00	0.00	99.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EW01	0.01	0.00	0.00	99.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
EW02	0.01	0.00	0.00	99.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EW03	0.01	0.00	0.00	99.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Average	0.01	0.00	0.00	99.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02

TABLE I-218
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Antimony

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	4.859	0.000	30,000
EE02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	10.476	0.000	30,000
EE03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	4.487	0.000	30,000
EE04	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2.994	0.000	30,000
EE05	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.850	0.000	30,000
EE06	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.011	0.000	30,000
EE07	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.024	0.000	30,000
EE08	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2.999	0.000	30,000
EE09	11,250	3,000	600,000	600,000	0.128	0.128	0.128	0.128	0.000	2.995	0.000	37,500
EE10	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.014	0.000	30,000
EW01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.002	0.000	30,000
EW02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2.997	0.000	30,000
EW03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2.993	0.000	30,000
Unused	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Unused	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.828	134.00	0.006
EE02	100	0.843	134.00	0.006
EE03	100	0.827	134.00	0.006
EE04	100	0.823	134.00	0.006
EE05	100	0.825	134.00	0.006
EE06	100	0.823	134.00	0.006
EE07	100	0.823	134.00	0.006
EE08	100	0.823	134.00	0.006
EE09	100	1.024	134.00	0.008
EE10	100	0.823	134.00	0.006
EW01	100	0.823	134.00	0.006
EW02	100	0.823	134.00	0.006
EW03	100	0.823	134.00	0.006
Unused	100	0.000	134.00	0.000
Unused	100	0.000	134.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-219
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Antimony

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	4.859	0.000	30.000
EE02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	10.476	0.000	30.000
EE03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	4.487	0.000	30.000
EE04	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.994	0.000	30.000
EE05	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.850	0.000	30.000
EE06	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.011	0.000	30.000
EE07	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.024	0.000	30.000
EE08	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.999	0.000	30.000
EE09	11.250	3.000	600.000	600.000	0.128	0.128	0.128	0.128	0.000	2.995	0.000	37.500
EE10	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.014	0.000	30.000
EW01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.002	0.000	30.000
EW02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.997	0.000	30.000
EW03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.993	0.000	30.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.828	1338.00	0.001
EE02	100	0.843	1338.00	0.001
EE03	100	0.827	1338.00	0.001
EE04	100	0.823	1338.00	0.001
EE05	100	0.825	1338.00	0.001
EE06	100	0.823	1338.00	0.001
EE07	100	0.823	1338.00	0.001
EE08	100	0.823	1338.00	0.001
EE09	100	1.024	1338.00	0.001
EE10	100	0.823	1338.00	0.001
EW01	100	0.823	1338.00	0.001
EW02	100	0.823	1338.00	0.001
EW03	100	0.823	1338.00	0.001
Unused	100	0.000	1338.00	0.000
Unused	100	0.000	1338.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

TABLE I-220
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Antimony

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	6.018	0.000	30,000
EE02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	14,910	0.000	30,000
EE03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	5,964	0.000	30,000
EE04	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,000	0.000	30,000
EE05	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	5,694	0.000	30,000
EE06	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,014	0.000	30,000
EE07	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,030	0.000	30,000
EE08	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,002	0.000	30,000
EE09	13,500	3,000	720,000	720,000	0.153	0.153	0.153	0.153	0.000	2,997	0.000	45,000
EE10	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,024	0.000	30,000
EW01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,003	0.000	30,000
EW02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,000	0.000	30,000
EW03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2,993	0.000	30,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.831	134.00	0.006
EE02	100	0.856	134.00	0.006
EE03	100	0.831	134.00	0.006
EE04	100	0.823	134.00	0.006
EE05	100	0.830	134.00	0.006
EE06	100	0.823	134.00	0.006
EE07	100	0.823	134.00	0.006
EE08	100	0.823	134.00	0.006
EE09	100	1.226	134.00	0.009
EE10	100	0.823	134.00	0.006
EW01	100	0.823	134.00	0.006
EW02	100	0.823	134.00	0.006
EW03	100	0.823	134.00	0.006
Unused	100	0.000	134.00	0.000
Unused	100	0.000	134.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-221
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Antimony

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	6.018	0.000	30.000
EE02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	14.910	0.000	30.000
EE03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	5.964	0.000	30.000
EE04	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.000	0.000	30.000
EE05	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	5.694	0.000	30.000
EE06	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.014	0.000	30.000
EE07	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.030	0.000	30.000
EE08	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.002	0.000	30.000
EE09	13.500	3.000	720.000	720.000	0.153	0.153	0.153	0.153	0.000	2.997	0.000	45.000
EE10	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.024	0.000	30.000
EW01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.003	0.000	30.000
EW02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.000	0.000	30.000
EW03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.993	0.000	30.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.831	1338.00	0.001
EE02	100	0.856	1338.00	0.001
EE03	100	0.831	1338.00	0.001
EE04	100	0.823	1338.00	0.001
EE05	100	0.830	1338.00	0.001
EE06	100	0.823	1338.00	0.001
EE07	100	0.823	1338.00	0.001
EE08	100	0.823	1338.00	0.001
EE09	100	1.226	1338.00	0.001
EE10	100	0.823	1338.00	0.001
EW01	100	0.823	1338.00	0.001
EW02	100	0.823	1338.00	0.001
EW03	100	0.823	1338.00	0.001
Unused	100	0.000	1338.00	0.000
Unused	100	0.000	1338.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-222
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to Antimony

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	96.93	1.04	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.61	0.00	0.37
EE02	95.16	1.02	0.00	0.00	0.02	0.01	0.01	0.00	0.00	3.40	0.00	0.37
EE03	97.05	1.04	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.49	0.00	0.37
EE04	97.53	1.05	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.00	0.00	0.37
EE05	97.26	1.05	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.28	0.00	0.37
EE06	97.53	1.05	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.00	0.00	0.37
EE07	97.52	1.05	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.01	0.00	0.37
EE08	97.53	1.05	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.00	0.00	0.37
EE09	97.93	0.84	0.00	0.00	0.02	0.01	0.01	0.00	0.00	0.80	0.00	0.38
EE10	97.53	1.05	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.00	0.00	0.37
EW01	97.53	1.05	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.00	0.00	0.37
EW02	97.53	1.05	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.00	0.00	0.37
EW03	97.53	1.05	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.00	0.00	0.37
Average	97.27	1.03	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.28	0.00	0.37

**TABLE I-223
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Arsenic**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.581	0.000	2.500
EE02	0.799	0.520	0.149	0.149	0.004	0.004	0.004	0.004	0.000	3.768	0.000	2.400
EE03	1.215	0.520	0.226	0.226	0.007	0.007	0.007	0.007	0.000	1.103	0.000	3.650
EE04	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	1.104	0.000	3.750
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.538	0.000	5.000
EE06	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	2.447	0.000	3.750
EE07	0.450	0.720	0.084	0.084	0.002	0.002	0.002	0.002	0.000	0.482	0.000	1.350
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.235	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.663	0.000	2.500
EE10	38.711	0.720	7.208	7.208	0.209	0.209	0.209	0.209	0.000	2.016	0.000	116.250
EW01	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.461	0.000	2.050
EW02	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.488	0.000	2.050
EW03	0.716	0.500	0.133	0.133	0.004	0.004	0.004	0.004	0.000	2.914	0.000	2.150
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.080	0.08	1.004
EE02	100	0.083	0.08	1.042
EE03	100	0.113	0.08	1.416
EE04	100	0.117	0.08	1.457
EE05	100	0.158	0.08	1.973
EE06	100	0.120	0.08	1.503
EE07	100	0.044	0.08	0.545
EE08	100	0.080	0.08	1.000
EE09	100	0.078	0.08	0.980
EE10	100	3.473	0.08	43.407
EW01	100	0.067	0.08	0.832
EW02	100	0.067	0.08	0.833
EW03	100	0.074	0.08	0.919
Unused	100	0.000	0.08	0.000
Unused	100	0.000	0.08	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-224
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Arsenic**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.581	0.000	2.500
EE02	0.799	0.520	0.149	0.149	0.004	0.004	0.004	0.004	0.000	3.768	0.000	2.400
EE03	1.215	0.520	0.226	0.226	0.007	0.007	0.007	0.007	0.000	1.103	0.000	3.650
EE04	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	1.104	0.000	3.750
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.538	0.000	5.000
EE06	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	2.447	0.000	3.750
EE07	0.450	0.720	0.084	0.084	0.002	0.002	0.002	0.002	0.000	0.482	0.000	1.350
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.235	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.663	0.000	2.500
EE10	38.711	0.720	7.208	7.208	0.209	0.209	0.209	0.209	0.000	2.016	0.000	116.250
EW01	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.461	0.000	2.050
EW02	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.488	0.000	2.050
EW03	0.716	0.500	0.133	0.133	0.004	0.004	0.004	0.004	0.000	2.914	0.000	2.150
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.080	0.80	0.100
EE02	100	0.083	0.80	0.104
EE03	100	0.113	0.80	0.142
EE04	100	0.117	0.80	0.146
EE05	100	0.158	0.80	0.197
EE06	100	0.120	0.80	0.150
EE07	100	0.044	0.80	0.055
EE08	100	0.080	0.80	0.100
EE09	100	0.078	0.80	0.098
EE10	100	3.473	0.80	4.341
EW01	100	0.067	0.80	0.083
EW02	100	0.067	0.80	0.083
EW03	100	0.074	0.80	0.092
Unused	100	0.000	0.80	0.000
Unused	100	0.000	0.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-225
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Arsenic**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	2.000	0.000	2.500
EE02	1.232	0.520	0.229	0.229	0.007	0.007	0.007	0.007	0.000	6.612	0.000	3.700
EE03	1.665	0.520	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.260	0.000	5.000
EE04	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.328	0.000	5.000
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	3.010	0.000	5.000
EE06	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.684	0.000	5.000
EE07	0.566	0.720	0.105	0.105	0.003	0.003	0.003	0.003	0.000	0.682	0.000	1.700
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.296	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.891	0.000	2.500
EE10	76.590	0.720	14.260	14.260	0.414	0.414	0.414	0.414	0.000	2.184	0.000	230.000
EW01	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.722	0.000	2.500
EW02	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.500	0.000	2.500
EW03	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	5.104	0.000	2.500
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.081	0.08	1.019
EE02	100	0.130	0.08	1.624
EE03	100	0.153	0.08	1.917
EE04	100	0.154	0.08	1.971
EE05	100	0.138	0.08	1.973
EE06	100	0.157	0.08	1.967
EE07	100	0.054	0.08	0.675
EE08	100	0.080	0.08	1.000
EE09	100	0.078	0.08	0.980
EE10	100	6.850	0.08	85.631
EW01	100	0.080	0.08	0.999
EW02	100	0.080	0.08	1.000
EW03	100	0.084	0.08	1.049
Unused	100	0.000	0.08	0.000
Unused	100	0.000	0.08	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-226
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Arsenic

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	2.000	0.000	2.500
EE02	1.232	0.520	0.229	0.229	0.007	0.007	0.007	0.007	0.000	6.612	0.000	3.700
EE03	1.665	0.520	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.260	0.000	5.000
EE04	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.328	0.000	5.000
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	3.010	0.000	5.000
EE06	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.684	0.000	5.000
EE07	0.566	0.720	0.105	0.105	0.003	0.003	0.003	0.003	0.000	0.682	0.000	1.700
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.296	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.891	0.000	2.500
EE10	76.590	0.720	14.260	14.260	0.414	0.414	0.414	0.414	0.000	2.184	0.000	230.000
EW01	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.722	0.000	2.500
EW02	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.500	0.000	2.500
EW03	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	5.104	0.000	2.500
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.081	0.80	0.102
EE02	100	0.130	0.80	0.162
EE03	100	0.153	0.80	0.192
EE04	100	0.154	0.80	0.192
EE05	100	0.158	0.80	0.197
EE06	100	0.157	0.80	0.197
EE07	100	0.054	0.80	0.068
EE08	100	0.080	0.80	0.100
EE09	100	0.078	0.80	0.098
EE10	100	6.850	0.80	8.563
EW01	100	0.080	0.80	0.100
EW02	100	0.080	0.80	0.100
EW03	100	0.084	0.80	0.105
Unused	100	0.000	0.80	0.000
Unused	100	0.000	0.80	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-227
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to Arsenic

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	92.41	1.86	0.00	0.00	0.01	0.01	0.01	0.00	0.00	5.39	0.00	0.32
EE02	85.50	1.79	0.00	0.00	0.01	0.00	0.00	0.00	0.00	12.38	0.00	0.30
EE03	95.66	1.32	0.00	0.00	0.01	0.01	0.01	0.00	0.00	2.67	0.00	0.33
EE04	95.52	1.53	0.00	0.00	0.01	0.01	0.01	0.00	0.00	2.59	0.00	0.33
EE05	94.08	1.13	0.00	0.00	0.01	0.01	0.01	0.00	0.00	4.44	0.00	0.33
EE06	92.60	1.48	0.00	0.00	0.01	0.01	0.01	0.00	0.00	5.57	0.00	0.32
EE07	91.89	4.75	0.00	0.00	0.01	0.01	0.01	0.00	0.00	3.03	0.00	0.32
EE08	92.84	2.59	0.00	0.00	0.01	0.01	0.01	0.00	0.00	4.23	0.00	0.32
EE09	94.69	2.64	0.00	0.00	0.01	0.01	0.01	0.00	0.00	2.32	0.00	0.33
EE10	99.41	0.06	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.16	0.00	0.34
EW01	91.49	2.16	0.00	0.00	0.01	0.01	0.01	0.00	0.00	6.02	0.00	0.32
EW02	91.38	2.16	0.00	0.00	0.01	0.01	0.01	0.00	0.00	6.12	0.00	0.32
EW03	86.86	1.96	0.00	0.00	0.01	0.01	0.01	0.00	0.00	10.86	0.00	0.30
Average	92.64	1.96	0.00	0.00	0.01	0.01	0.01	0.00	0.00	5.06	0.00	0.32

TABLE I-228
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Cadmium

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1.170	2.200	1.350	1.350	0.043	0.043	0.043	0.043	0.000	1.722	0.000	1.390
EE02	1.394	2.200	1.607	1.607	0.051	0.051	0.051	0.051	0.000	0.877	0.000	1.655
EE03	1.402	2.200	1.617	1.617	0.051	0.051	0.051	0.051	0.000	3.385	0.000	1.665
EE04	0.278	6.900	0.320	0.120	0.010	0.010	0.010	0.010	0.000	2.685	0.000	0.330
EE05	6.989	6.900	8.059	8.059	0.256	0.256	0.256	0.256	0.000	124.630	0.000	8.300
EE06	0.741	6.900	0.854	0.854	0.027	0.027	0.027	0.027	0.000	45.100	0.000	0.880
EE07	0.800	1.700	0.922	0.922	0.029	0.029	0.029	0.029	0.000	4.038	0.000	0.950
EE08	0.720	3.500	0.830	0.830	0.026	0.026	0.026	0.026	0.000	13.581	0.000	0.855
EE09	0.741	4.600	0.854	0.854	0.027	0.027	0.027	0.027	0.000	22.333	0.000	0.880
EE10	0.770	4.600	0.888	0.888	0.028	0.028	0.028	0.028	0.000	11.133	0.000	0.915
EW01	0.265	2.630	0.306	0.306	0.010	0.010	0.010	0.010	0.000	15.843	0.000	0.315
EW02	1.162	2.630	1.340	1.340	0.043	0.043	0.043	0.043	0.000	2.949	0.000	1.380
EW03	0.552	2.630	0.636	0.636	0.020	0.020	0.020	0.020	0.000	1.049	0.000	0.655
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.116	0.16	0.723
EE02	100	0.133	0.16	0.834
EE03	100	0.141	0.16	0.881
EE04	100	0.052	0.16	0.325
EE05	100	0.986	0.16	6.165
EE06	100	0.210	0.16	1.311
EE07	100	0.087	0.16	0.547
EE08	100	0.112	0.16	0.698
EE09	100	0.141	0.16	0.879
EE10	100	0.113	0.16	0.704
EW01	100	0.075	0.16	0.467
EW02	100	0.120	0.16	0.747
EW03	100	0.060	0.16	0.374
Unused	100	0.000	0.16	0.000
Unused	100	0.000	0.16	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-229
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Cadmium

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1.170	2.200	1.350	1.350	0.043	0.043	0.043	0.043	0.000	1.722	0.000	1.390
EE02	1.394	2.200	1.607	1.607	0.051	0.051	0.051	0.051	0.000	0.877	0.000	1.655
EE03	1.402	2.200	1.617	1.617	0.051	0.051	0.051	0.051	0.000	3.385	0.000	1.665
EE04	0.278	6.900	0.320	0.320	0.010	0.010	0.010	0.010	0.000	2.685	0.000	0.330
EE05	6.989	6.900	8.059	8.059	0.256	0.256	0.256	0.256	0.000	124.630	0.000	8.300
EE06	0.741	6.900	0.854	0.854	0.027	0.027	0.027	0.027	0.000	45.100	0.000	0.880
EE07	0.800	1.700	0.922	0.922	0.029	0.029	0.029	0.029	0.000	4.038	0.000	0.950
EE08	0.720	3.500	0.830	0.830	0.026	0.026	0.026	0.026	0.000	13.581	0.000	0.855
EE09	0.741	4.600	0.854	0.854	0.027	0.027	0.027	0.027	0.000	22.333	0.000	0.880
EE10	0.770	4.600	0.888	0.888	0.028	0.028	0.028	0.028	0.000	11.133	0.000	0.915
EW01	0.265	2.630	0.306	0.306	0.010	0.010	0.010	0.010	0.000	15.843	0.000	0.315
EW02	1.162	2.630	1.340	1.340	0.043	0.043	0.043	0.043	0.000	2.949	0.000	1.380
EW03	0.552	2.630	0.636	0.636	0.020	0.020	0.020	0.020	0.000	1.049	0.000	0.655
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.116	1.60	0.072
EE02	100	0.133	1.60	0.083
EE03	100	0.141	1.60	0.088
EE04	100	0.052	1.60	0.033
EE05	100	0.986	1.60	0.616
EE06	100	0.210	1.60	0.131
EE07	100	0.087	1.60	0.055
EE08	100	0.112	1.60	0.070
EE09	100	0.141	1.60	0.088
EE10	100	0.113	1.60	0.070
EW01	100	0.075	1.60	0.047
EW02	100	0.120	1.60	0.075
EW03	100	0.060	1.60	0.037
Unused	100	0.000	1.60	0.000
Unused	100	0.000	1.60	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-230
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Cadmium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.743	0.000	2.500
EE02	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.260	0.000	2.500
EE03	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	4.620	0.000	2.500
EE04	0.303	8.000	0.350	0.350	0.011	0.011	0.011	0.011	0.000	2.880	0.000	0.360
EE05	8.252	8.000	9.516	9.516	0.302	0.302	0.302	0.302	0.000	160.680	0.000	9.800
EE06	0.926	8.000	1.068	1.068	0.034	0.034	0.034	0.034	0.000	69.520	0.000	1.100
EE07	1.010	2.300	1.165	1.165	0.037	0.037	0.037	0.037	0.000	5.751	0.000	1.200
EE08	0.842	3.500	0.971	0.971	0.031	0.031	0.031	0.031	0.000	18.468	0.000	1.000
EE09	0.842	4.800	0.971	0.971	0.031	0.031	0.031	0.031	0.000	22.796	0.000	1.000
EE10	0.926	4.800	1.068	1.068	0.034	0.034	0.034	0.034	0.000	20.670	0.000	1.100
EW01	0.303	3.300	0.350	0.350	0.011	0.011	0.011	0.011	0.000	27.846	0.000	0.360
EW02	2.021	3.300	2.330	2.330	0.074	0.074	0.074	0.074	0.000	3.198	0.000	2.400
EW03	0.842	3.400	0.971	0.971	0.031	0.031	0.031	0.031	0.000	1.848	0.000	1.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS			
BASED ON UCL (or max) CONCENTRATIONS			
LOCATION	Area Use Factor	Applied Daily Dose	HAZARD QUOTIENT
EE01	100	0.201	1.259
EE02	100	0.200	1.250
EE03	100	0.209	1.308
EE04	100	0.058	0.363
EE05	100	1.201	7.508
EE06	100	0.296	1.852
EE07	100	0.113	0.705
EE08	100	0.136	0.850
EE09	100	0.152	0.947
EE10	100	0.153	0.958
EW01	100	0.113	0.706
EW02	100	0.199	1.244
EW03	100	0.090	0.563
Unused	100	0.000	0.000
Unused	100	0.000	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-231
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Cadmium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.743	0.000	2.500
EE02	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.260	0.000	2.500
EE03	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	4.620	0.000	2.500
EE04	0.303	8.000	0.350	0.350	0.011	0.011	0.011	0.011	0.000	2.880	0.000	0.360
EE05	8.232	8.000	9.516	9.516	0.302	0.302	0.302	0.302	0.000	160.680	0.000	9.800
EE06	0.926	8.000	1.068	1.068	0.034	0.034	0.034	0.034	0.000	69.520	0.000	1.100
EE07	1.010	2.300	1.165	1.165	0.037	0.037	0.037	0.037	0.000	5.751	0.000	1.200
EE08	0.842	3.500	0.971	0.971	0.031	0.031	0.031	0.031	0.000	18.468	0.000	1.000
EE09	0.842	4.800	0.971	0.971	0.031	0.031	0.031	0.031	0.000	22.796	0.000	1.000
EE10	0.926	4.800	1.068	1.068	0.034	0.034	0.034	0.034	0.000	20.670	0.000	1.100
EW01	0.303	3.300	0.350	0.350	0.011	0.011	0.011	0.011	0.000	27.846	0.000	0.360
EW02	2.021	3.300	2.330	2.330	0.074	0.074	0.074	0.074	0.000	3.198	0.000	2.400
EW03	0.842	3.400	0.971	0.971	0.031	0.031	0.031	0.031	0.000	1.848	0.000	1.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.201	1.60	0.126
EE02	100	0.200	1.60	0.125
EE03	100	0.209	1.60	0.131
EE04	100	0.058	1.60	0.036
EE05	100	1.201	1.60	0.751
EE06	100	0.296	1.60	0.185
EE07	100	0.113	1.60	0.070
EE08	100	0.136	1.60	0.085
EE09	100	0.152	1.60	0.095
EE10	100	0.153	1.60	0.096
EW01	100	0.113	1.60	0.071
EW02	100	0.199	1.60	0.124
EW03	100	0.090	1.60	0.056
Unused	100	0.000	1.60	0.000
Unused	100	0.000	1.60	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-232
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to Cadmium

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	90.19	5.47	0.00	0.00	0.07	0.04	0.04	0.00	0.00	4.08	0.00	0.12
EE02	93.18	4.75	0.00	0.00	0.07	0.04	0.04	0.00	0.00	1.80	0.00	0.13
EE03	88.67	4.49	0.00	0.00	0.07	0.03	0.03	0.00	0.00	6.58	0.00	0.12
EE04	47.60	38.13	0.00	0.00	0.04	0.02	0.02	0.00	0.00	14.13	0.00	0.07
EE05	63.18	2.01	0.00	0.00	0.05	0.02	0.02	0.00	0.00	34.62	0.00	0.09
EE06	31.51	9.47	0.00	0.00	0.02	0.01	0.01	0.00	0.00	58.93	0.00	0.04
EE07	81.53	5.59	0.00	0.00	0.06	0.03	0.03	0.00	0.00	12.64	0.00	0.11
EE08	57.49	9.02	0.00	0.00	0.05	0.02	0.02	0.00	0.00	33.32	0.00	0.08
EE09	46.97	9.41	0.00	0.00	0.04	0.02	0.02	0.00	0.00	43.49	0.00	0.06
EE10	60.99	11.75	0.00	0.00	0.05	0.02	0.02	0.00	0.00	27.08	0.00	0.08
EW01	31.67	10.13	0.00	0.00	0.02	0.01	0.01	0.00	0.00	58.11	0.00	0.04
EW02	86.66	6.33	0.00	0.00	0.07	0.03	0.03	0.00	0.00	6.76	0.00	0.12
EW03	82.29	12.66	0.00	0.00	0.06	0.03	0.03	0.00	0.00	4.81	0.00	0.11
Average	66.30	9.94	0.00	0.00	0.05	0.03	0.03	0.00	0.00	23.56	0.00	0.09

**TABLE I-233
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Chromium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	20,000	2,730	10,000	10,000	1,000	1,000	1,000	1,000	0.000	12,068	0.000	5,000
EE02	41,000	2,730	20,500	20,500	2,050	2,050	2,050	2,050	0.000	42,602	0.000	10,250
EE03	27,200	2,730	13,600	13,600	1,360	1,360	1,360	1,360	0.000	25,580	0.000	6,800
EE04	22,600	2,870	11,300	11,300	1,130	1,130	1,130	1,130	0.000	58,514	0.000	5,650
EE05	54,000	2,870	27,000	27,000	2,700	2,700	2,700	2,700	0.000	537,640	0.000	13,500
EE06	20,000	2,870	10,000	10,000	1,000	1,000	1,000	1,000	0.000	345,050	0.000	5,000
EE07	22,200	3,800	11,100	11,100	1,110	1,110	1,110	1,110	0.000	52,200	0.000	5,550
EE08	126,000	4,900	63,000	63,000	6,300	6,300	6,300	6,300	0.000	88,589	0.000	31,500
EE09	90,000	3,670	45,000	45,000	4,500	4,500	4,500	4,500	0.000	186,945	0.000	22,500
EE10	54,000	3,670	27,000	27,000	2,700	2,700	2,700	2,700	0.000	109,254	0.000	13,500
EW01	20,000	1,560	10,000	10,000	1,000	1,000	1,000	1,000	0.000	158,210	0.000	5,000
EW02	23,200	1,560	11,600	11,600	1,160	1,160	1,160	1,160	0.000	54,100	0.000	5,800
EW03	20,000	1,357	10,000	10,000	1,000	1,000	1,000	1,000	0.000	29,494	0.000	5,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	1,829	18,000	0.102
EE02	100	3,790	18,000	0.211
EE03	100	2,509	18,000	0.139
EE04	100	2,189	18,000	0.122
EE05	100	6,309	18,000	0.350
EE06	100	2,742	18,000	0.152
EE07	100	2,139	18,000	0.119
EE08	100	11,521	18,000	0.640
EE09	100	8,568	18,000	0.476
EE10	100	5,137	18,000	0.285
EW01	100	2,226	18,000	0.124
EW02	100	2,227	18,000	0.124
EW03	100	1,873	18,000	0.104
Unused	100	0.000	18,000	0.000
Unused	100	0.000	18,000	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-234
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Chromium

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	20,000	2,730	10,000	10,000	1,000	1,000	1,000	1,000	0.000	12,068	0.000	5,000
EE02	41,000	2,730	20,500	20,500	2,050	2,050	2,050	2,050	0.000	42,602	0.000	10,250
EE03	27,200	2,730	13,600	13,600	1,360	1,360	1,360	1,360	0.000	25,580	0.000	6,800
EE04	22,600	2,870	11,300	11,300	1,130	1,130	1,130	1,130	0.000	58,514	0.000	5,650
EE05	54,000	2,870	27,000	27,000	2,700	2,700	2,700	2,700	0.000	537,640	0.000	13,500
EE06	20,000	2,870	10,000	10,000	1,000	1,000	1,000	1,000	0.000	345,050	0.000	5,000
EE07	22,200	3,800	11,100	11,100	1,110	1,110	1,110	1,110	0.000	52,200	0.000	5,550
EE08	126,000	4,900	63,000	63,000	6,300	6,300	6,300	6,300	0.000	88,589	0.000	31,500
EE09	90,000	3,670	45,000	45,000	4,500	4,500	4,500	4,500	0.000	186,945	0.000	22,500
EE10	54,000	3,670	27,000	27,000	2,700	2,700	2,700	2,700	0.000	109,254	0.000	13,500
EW01	20,000	1,560	10,000	10,000	1,000	1,000	1,000	1,000	0.000	158,210	0.000	5,000
EW02	23,200	1,560	11,600	11,600	1,160	1,160	1,160	1,160	0.000	54,100	0.000	5,800
EW03	20,000	1,357	10,000	10,000	1,000	1,000	1,000	1,000	0.000	29,494	0.000	5,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	1,829	18,000	0.102
EE02	100	3,790	18,000	0.211
EE03	100	2,509	18,000	0.139
EE04	100	2,189	18,000	0.122
EE05	100	6,309	18,000	0.350
EE06	100	2,742	18,000	0.152
EE07	100	2,139	18,000	0.119
EE08	100	11,521	18,000	0.640
EE09	100	8,568	18,000	0.476
EE10	100	5,137	18,000	0.285
EW01	100	2,226	18,000	0.124
EW02	100	2,227	18,000	0.124
EW03	100	1,873	18,000	0.104
Unused	100	0.000	18,000	0.000
Unused	100	0.000	18,000	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-235
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Chromium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	20,000	3,100	10,000	10,000	1,000	1,000	1,000	1,000	0.000	16,500	0.000	5,000
EE02	48,000	3,100	24,000	24,000	2,400	2,400	2,400	2,400	0.000	64,372	0.000	12,000
EE03	34,400	3,100	17,200	17,200	1,720	1,720	1,720	1,720	0.000	25,704	0.000	8,600
EE04	25,200	3,600	12,600	12,600	1,260	1,260	1,260	1,260	0.000	86,400	0.000	6,300
EE05	88,000	3,600	44,000	44,000	4,400	4,400	4,400	4,400	0.000	584,220	0.000	22,000
EE06	20,000	3,600	10,000	10,000	1,000	1,000	1,000	1,000	0.000	563,200	0.000	5,000
EE07	24,400	4,100	12,200	12,200	1,220	1,220	1,220	1,220	0.000	89,460	0.000	6,100
EE08	168,000	4,900	84,000	84,000	8,400	8,400	8,400	8,400	0.000	146,610	0.000	42,000
EE09	132,000	4,000	66,000	66,000	6,600	6,600	6,600	6,600	0.000	238,620	0.000	33,000
EE10	64,000	4,000	32,000	32,000	3,200	3,200	3,200	3,200	0.000	202,800	0.000	16,000
EW01	20,000	2,700	10,000	10,000	1,000	1,000	1,000	1,000	0.000	272,580	0.000	5,000
EW02	26,400	2,700	13,200	13,200	1,320	1,320	1,320	1,320	0.000	70,725	0.000	6,600
EW03	20,000	2,300	10,000	10,000	1,000	1,000	1,000	1,000	0.000	33,292	0.000	5,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	1,842	18,000	0.102
EE02	100	4,476	18,000	0.249
EE03	100	3,155	18,000	0.175
EE04	100	2,500	18,000	0.139
EE05	100	9,478	18,000	0.527
EE06	100	3,341	18,000	0.186
EE07	100	2,438	18,000	0.135
EE08	100	15,434	18,000	0.857
EE09	100	12,465	18,000	0.693
EE10	100	6,288	18,000	0.349
EW01	100	2,542	18,000	0.141
EW02	100	2,562	18,000	0.142
EW03	100	1,886	18,000	0.105
Unused	100	0.000	18,000	0.000
Unused	100	0.000	18,000	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-236
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Chromium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	20,000	3,100	10,000	10,000	1,000	1,000	1,000	1,000	0.000	16,500	0.000	5,000
EE02	48,000	3,100	24,000	24,000	2,400	2,400	2,400	2,400	0.000	64,372	0.000	12,000
EE03	34,400	3,100	17,200	17,200	1,720	1,720	1,720	1,720	0.000	25,704	0.000	8,600
EE04	25,200	3,600	12,600	12,600	1,260	1,260	1,260	1,260	0.000	86,400	0.000	6,300
EE05	88,000	3,600	44,000	44,000	4,400	4,400	4,400	4,400	0.000	584,220	0.000	22,000
EE06	20,000	3,600	10,000	10,000	1,000	1,000	1,000	1,000	0.000	563,200	0.000	5,000
EE07	24,400	4,100	12,200	12,200	1,220	1,220	1,220	1,220	0.000	89,460	0.000	6,100
EE08	168,000	4,900	84,000	84,000	8,400	8,400	8,400	8,400	0.000	146,610	0.000	42,000
EE09	132,000	4,000	66,000	66,000	6,600	6,600	6,600	6,600	0.000	238,620	0.000	33,000
EE10	64,000	4,000	32,000	32,000	3,200	3,200	3,200	3,200	0.000	202,800	0.000	16,000
EW01	20,000	2,700	10,000	10,000	1,000	1,000	1,000	1,000	0.000	272,580	0.000	5,000
EW02	26,400	2,700	13,200	13,200	1,320	1,320	1,320	1,320	0.000	70,725	0.000	6,600
EW03	20,000	2,300	10,000	10,000	1,000	1,000	1,000	1,000	0.000	33,292	0.000	5,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	100	1,842	18.00	0.102	
EE02	100	4,476	18.00	0.249	
EE03	100	3,155	18.00	0.175	
EE04	100	2,500	18.00	0.139	
EE05	100	9,478	18.00	0.527	
EE06	100	3,341	18.00	0.186	
EE07	100	2,438	18.00	0.135	
EE08	100	15,434	18.00	0.857	
EE09	100	12,465	18.00	0.693	
EE10	100	6,288	18.00	0.349	
EW01	100	2,542	18.00	0.141	
EW02	100	2,562	18.00	0.142	
EW03	100	1,886	18.00	0.105	
Unused	100	0.000	18.00	0.000	
Unused	100	0.000	18.00	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-237
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Muskrat exposed to Chromium

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	97.52	0.43	0.00	0.00	0.10	0.05	0.05	0.00	0.00	1.81	0.00	0.03
EE02	96.48	0.21	0.00	0.00	0.10	0.05	0.05	0.00	0.00	3.08	0.00	0.03
EE03	96.66	0.31	0.00	0.00	0.10	0.05	0.05	0.00	0.00	2.79	0.00	0.03
EE04	92.07	0.38	0.00	0.00	0.10	0.05	0.05	0.00	0.00	7.32	0.00	0.03
EE05	76.33	0.13	0.00	0.00	0.08	0.04	0.04	0.00	0.00	23.35	0.00	0.02
EE06	65.06	0.30	0.00	0.00	0.07	0.03	0.03	0.00	0.00	34.48	0.00	0.02
EE07	92.58	0.51	0.00	0.00	0.10	0.05	0.05	0.00	0.00	6.69	0.00	0.03
EE08	97.53	0.12	0.00	0.00	0.10	0.05	0.05	0.00	0.00	2.11	0.00	0.03
EE09	93.67	0.12	0.00	0.00	0.10	0.05	0.05	0.00	0.00	5.98	0.00	0.03
EE10	93.74	0.21	0.00	0.00	0.10	0.05	0.05	0.00	0.00	5.83	0.00	0.03
EW01	80.13	0.20	0.00	0.00	0.09	0.04	0.04	0.00	0.00	19.47	0.00	0.02
EW02	92.92	0.20	0.00	0.00	0.10	0.05	0.05	0.00	0.00	6.66	0.00	0.03
EW03	95.24	0.21	0.00	0.00	0.10	0.05	0.05	0.00	0.00	4.32	0.00	0.03
Average	90.00	0.26	0.00	0.00	0.10	0.05	0.05	0.00	0.00	9.53	0.00	0.03

**TABLE I-238
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Cobalt**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.748	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.683	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.321	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.730	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.454	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	7.361	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.344	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.420	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.954	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.945	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	35.860	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.351	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.266	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.039	0.13	0.297
EE02	100	0.038	0.13	0.295
EE03	100	0.035	0.13	0.266
EE04	100	0.036	0.13	0.275
EE05	100	0.049	0.13	0.375
EE06	100	0.051	0.13	0.394
EE07	100	0.040	0.13	0.309
EE08	100	0.040	0.13	0.311
EE09	100	0.042	0.13	0.322
EE10	100	0.042	0.13	0.322
EW01	100	0.129	0.13	0.990
EW02	100	0.040	0.13	0.305
EW03	100	0.042	0.13	0.324
Unused	100	0.000	0.13	0.000
Unused	100	0.000	0.13	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-239
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Cobalt**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.748	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.683	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.321	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.750	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.454	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	7.361	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.344	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.420	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.954	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.945	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	35.860	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.351	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.266	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.039	1.30	0.030
EE02	100	0.038	1.30	0.030
EE03	100	0.035	1.30	0.027
EE04	100	0.036	1.30	0.028
EE05	100	0.049	1.30	0.037
EE06	100	0.051	1.30	0.039
EE07	100	0.040	1.30	0.031
EE08	100	0.040	1.30	0.031
EE09	100	0.042	1.30	0.032
EE10	100	0.042	1.30	0.032
EW01	100	0.129	1.30	0.099
EW02	100	0.040	1.30	0.030
EW03	100	0.042	1.30	0.032
Unused	100	0.000	1.30	0.000
Unused	100	0.000	1.30	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-240
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Cobalt

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.500	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.888	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.634	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.840	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.630	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	8.800	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	5.609	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.519	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.100	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.446	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	56.280	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.750	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.072	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.043	0.13	0.333
EE02	100	0.039	0.13	0.299
EE03	100	0.035	0.13	0.273
EE04	100	0.036	0.13	0.277
EE05	100	0.049	0.13	0.378
EE06	100	0.055	0.13	0.424
EE07	100	0.046	0.13	0.357
EE08	100	0.041	0.13	0.313
EE09	100	0.042	0.13	0.325
EE10	100	0.043	0.13	0.332
EW01	100	0.185	0.13	1.420
EW02	100	0.041	0.13	0.313
EW03	100	0.047	0.13	0.362
Unused	100	0.000	0.13	0.000
Unused	100	0.000	0.13	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-241
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Cobalt**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.500	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.888	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.634	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.840	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.630	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	8.800	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	5.609	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.519	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.100	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.446	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	56.280	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.750	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.072	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.043	1.30	0.033
EE02	100	0.039	1.30	0.030
EE03	100	0.035	1.30	0.027
EE04	100	0.036	1.30	0.028
EE05	100	0.049	1.30	0.038
EE06	100	0.055	1.30	0.042
EE07	100	0.046	1.30	0.036
EE08	100	0.041	1.30	0.031
EE09	100	0.042	1.30	0.033
EE10	100	0.043	1.30	0.033
EW01	100	0.185	1.30	0.142
EW02	100	0.041	1.30	0.031
EW03	100	0.047	1.30	0.036
Unused	100	0.000	1.30	0.000
Unused	100	0.000	1.30	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-242
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to Cobalt

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	69.40	8.95	0.00	0.00	0.39	0.20	0.20	0.00	0.00	19.53	0.00	1.33
EE02	69.72	9.00	0.00	0.00	0.39	0.20	0.20	0.00	0.00	19.16	0.00	1.34
EE03	77.23	9.97	0.00	0.00	0.43	0.22	0.22	0.00	0.00	10.45	0.00	1.48
EE04	74.70	9.64	0.00	0.00	0.42	0.21	0.21	0.00	0.00	13.39	0.00	1.43
EE05	54.93	7.09	0.00	0.00	0.31	0.15	0.15	0.00	0.00	36.31	0.00	1.05
EE06	52.27	6.74	0.00	0.00	0.29	0.15	0.15	0.00	0.00	39.40	0.00	1.00
EE07	66.58	8.59	0.00	0.00	0.37	0.19	0.19	0.00	0.00	22.80	0.00	1.28
EE08	66.24	8.55	0.00	0.00	0.37	0.19	0.19	0.00	0.00	23.20	0.00	1.27
EE09	63.92	8.25	0.00	0.00	0.36	0.18	0.18	0.00	0.00	25.88	0.00	1.23
EE10	63.96	8.25	0.00	0.00	0.36	0.18	0.18	0.00	0.00	25.84	0.00	1.23
EW01	20.79	2.24	0.00	0.00	0.12	0.06	0.06	0.00	0.00	76.34	0.00	0.40
EW02	67.52	7.26	0.00	0.00	0.38	0.19	0.19	0.00	0.00	23.17	0.00	1.30
EW03	63.50	6.83	0.00	0.00	0.36	0.18	0.18	0.00	0.00	27.74	0.00	1.22
Average	62.37	7.80	0.00	0.00	0.35	0.18	0.18	0.00	0.00	27.94	0.00	1.20

TABLE I-243
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Cyanide

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.000	0.250	0.000	0.000	0.008	0.008	0.008	0.008	0.000	0.127	0.000	2.503
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	2.848	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
Unued	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unued	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.001	0.03	0.054
EE02	100	0.002	0.03	0.079
EE03	100	0.002	0.03	0.079
EE04	100	0.002	0.03	0.079
EE05	100	0.009	0.03	0.364
EE06	100	0.002	0.03	0.079
EE07	100	0.002	0.03	0.079
EE08	100	0.002	0.03	0.079
EE09	100	0.002	0.03	0.079
EE10	100	0.002	0.03	0.079
EW01	100	0.002	0.03	0.079
EW02	100	0.002	0.03	0.079
EW03	100	0.002	0.03	0.079
Unued	100	0.000	0.03	0.000
Unued	100	0.000	0.03	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-244
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Cyanide

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.000	0.250	0.000	0.000	0.008	0.008	0.008	0.008	0.000	0.127	0.000	2.503
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	2.848	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.001	0.25	0.005
EE02	100	0.002	0.25	0.008
EE03	100	0.002	0.25	0.008
EE04	100	0.002	0.25	0.008
EE05	100	0.009	0.25	0.036
EE06	100	0.002	0.25	0.008
EE07	100	0.002	0.25	0.008
EE08	100	0.002	0.25	0.008
EE09	100	0.002	0.25	0.008
EE10	100	0.002	0.25	0.008
EW01	100	0.002	0.25	0.008
EW02	100	0.002	0.25	0.008
EW03	100	0.002	0.25	0.008
Unused	100	0.000	0.25	0.000
Unused	100	0.000	0.25	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-245
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Cyanide**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	4.836	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.259	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.002	0.03	0.079
EE02	100	0.002	0.03	0.079
EE03	100	0.002	0.03	0.079
EE04	100	0.002	0.03	0.079
EE05	100	0.015	0.03	0.582
EE06	100	0.002	0.03	0.080
EE07	100	0.002	0.03	0.079
EE08	100	0.002	0.03	0.079
EE09	100	0.002	0.03	0.079
EE10	100	0.002	0.03	0.079
EW01	100	0.002	0.03	0.079
EW02	100	0.002	0.03	0.079
EW03	100	0.002	0.03	0.079
Unused	100	0.000	0.03	0.000
Unused	100	0.000	0.03	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-246
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Cyanide

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	4.836	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.259	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.002	0.25	0.008
EE02	100	0.002	0.25	0.008
EE03	100	0.002	0.25	0.008
EE04	100	0.002	0.25	0.008
EE05	100	0.015	0.25	0.058
EE06	100	0.002	0.25	0.008
EE07	100	0.002	0.25	0.008
EE08	100	0.002	0.25	0.008
EE09	100	0.002	0.25	0.008
EE10	100	0.002	0.25	0.008
EW01	100	0.002	0.25	0.008
EW02	100	0.002	0.25	0.008
EW03	100	0.002	0.25	0.008
Unused	100	0.000	0.25	0.000
Unused	100	0.000	0.25	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-247
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to Cyanide

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.00	53.18	0.00	0.00	1.06	0.53	0.53	0.00	0.00	25.68	0.00	19.01
EE02	0.00	36.44	0.00	0.00	1.46	0.73	0.73	0.00	0.00	34.61	0.00	26.03
EE03	0.00	36.48	0.00	0.00	1.46	0.73	0.73	0.00	0.00	34.55	0.00	26.06
EE04	0.00	36.48	0.00	0.00	1.46	0.73	0.73	0.00	0.00	34.54	0.00	26.06
EE05	0.00	7.91	0.00	0.00	0.32	0.16	0.16	0.00	0.00	85.81	0.00	5.65
EE06	0.00	36.40	0.00	0.00	1.46	0.73	0.73	0.00	0.00	34.70	0.00	26.00
EE07	0.00	36.28	0.00	0.00	1.45	0.73	0.73	0.00	0.00	34.91	0.00	25.91
EE08	0.00	36.44	0.00	0.00	1.46	0.73	0.73	0.00	0.00	34.62	0.00	26.03
EE09	0.00	36.38	0.00	0.00	1.46	0.73	0.73	0.00	0.00	34.73	0.00	25.98
EE10	0.00	36.37	0.00	0.00	1.45	0.73	0.73	0.00	0.00	34.75	0.00	25.98
EW01	0.00	36.31	0.00	0.00	1.45	0.73	0.73	0.00	0.00	34.85	0.00	25.93
EW02	0.00	36.37	0.00	0.00	1.45	0.73	0.73	0.00	0.00	34.74	0.00	25.98
EW03	0.00	36.39	0.00	0.00	1.46	0.73	0.73	0.00	0.00	34.71	0.00	25.99
Average	0.00	35.49	0.00	0.00	1.34	0.67	0.67	0.00	0.00	37.94	0.00	23.89

**TABLE I-248
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Lead**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	4.121	1.640	2.538	2.538	0.029	0.029	0.029	0.029	0.000	19.863	0.000	1.900
EE02	28.197	1.640	17.368	17.368	0.196	0.196	0.196	0.196	0.000	15.070	0.000	13.000
EE03	4.761	1.640	2.933	2.933	0.033	0.033	0.033	0.033	0.000	12.041	0.000	2.195
EE04	3.145	3.940	1.937	1.937	0.022	0.022	0.022	0.022	0.000	112.484	0.000	1.450
EE05	7.917	3.940	4.876	4.876	0.055	0.055	0.055	0.055	0.000	94.793	0.000	3.650
EE06	35.463	3.940	21.844	21.844	0.247	0.247	0.247	0.247	0.000	72.095	0.000	16.350
EE07	6.615	1.700	4.075	4.075	0.046	0.046	0.046	0.046	0.000	7.305	0.000	3.050
EE08	4.772	2.300	2.939	2.939	0.033	0.033	0.033	0.033	0.000	13.223	0.000	2.200
EE09	10.570	1.630	6.480	6.480	0.073	0.073	0.073	0.073	0.000	56.685	0.000	4.850
EE10	4.880	1.630	3.006	3.006	0.034	0.034	0.034	0.034	0.000	16.278	0.000	2.250
EW01	4.555	0.840	2.806	2.806	0.032	0.032	0.032	0.032	0.000	73.370	0.000	2.100
EW02	27.958	0.840	17.221	17.221	0.195	0.195	0.195	0.195	0.000	34.704	0.000	12.890
EW03	3.199	1.183	1.971	1.971	0.022	0.022	0.022	0.022	0.000	10.819	0.000	1.475
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	100	0.427	15.00	0.028	
EE02	100	2.563	15.00	0.171	
EE03	100	0.463	15.00	0.031	
EE04	100	0.600	15.00	0.040	
EE05	100	0.978	15.00	0.065	
EE06	100	3.374	15.00	0.225	
EE07	100	0.615	15.00	0.041	
EE08	100	0.469	15.00	0.031	
EE09	100	1.099	15.00	0.073	
EE10	100	0.485	15.00	0.032	
EW01	100	0.610	15.00	0.041	
EW02	100	2.593	15.00	0.173	
EW03	100	0.319	15.00	0.021	
Unused	100	0.000	15.00	0.000	
Unused	100	0.000	15.00	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-249
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Lead

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	4.121	1.640	2.538	2.538	0.029	0.029	0.029	0.029	0.000	19.863	0.000	1.900
EE02	28.197	1.640	17.368	17.368	0.196	0.196	0.196	0.196	0.000	13.070	0.000	13.000
EE03	4.761	1.640	2.933	2.933	0.033	0.033	0.033	0.033	0.000	12.041	0.000	2.195
EE04	3.145	3.940	1.937	1.937	0.022	0.022	0.022	0.022	0.000	112.484	0.000	1.450
EE05	7.917	3.940	4.876	4.876	0.055	0.055	0.055	0.055	0.000	94.793	0.000	3.650
EE06	35.463	3.940	21.844	21.844	0.247	0.247	0.247	0.247	0.000	72.095	0.000	16.350
EE07	6.615	1.700	4.075	4.075	0.046	0.046	0.046	0.046	0.000	7.305	0.000	3.050
EE08	4.772	2.300	2.939	2.939	0.033	0.033	0.033	0.033	0.000	13.223	0.000	2.200
EE09	10.520	1.650	6.480	6.480	0.073	0.073	0.073	0.073	0.000	56.685	0.000	4.850
EE10	4.880	1.650	3.006	3.006	0.034	0.034	0.034	0.034	0.000	16.278	0.000	2.250
EW01	4.555	0.840	2.806	2.806	0.032	0.032	0.032	0.032	0.000	73.370	0.000	2.100
EW02	27.958	0.840	17.221	17.221	0.195	0.195	0.195	0.195	0.000	34.704	0.000	12.890
EW03	3.199	1.183	1.971	1.971	0.022	0.022	0.022	0.022	0.000	10.819	0.000	1.475
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.427	150.00	0.003
EE02	100	2.563	150.00	0.017
EE03	100	0.463	150.00	0.003
EE04	100	0.600	150.00	0.004
EE05	100	0.978	150.00	0.007
EE06	100	3.374	150.00	0.022
EE07	100	0.615	150.00	0.004
EE08	100	0.469	150.00	0.003
EE09	100	1.099	150.00	0.007
EE10	100	0.485	150.00	0.003
EW01	100	0.610	150.00	0.004
EW02	100	2.593	150.00	0.017
EW03	100	0.319	150.00	0.002
Unused	100	0.000	150.00	0.000
Unused	100	0.000	150.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-250
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Lead

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	5.856	2.100	3.607	3.607	0.041	0.041	0.041	0.041	0.000	25.200	0.000	2.700
EE02	52.056	2.100	32.064	32.064	0.362	0.362	0.362	0.362	0.000	17.708	0.000	24.000
EE03	7.592	2.100	4.676	4.676	0.053	0.053	0.053	0.053	0.000	21.588	0.000	3.500
EE04	4.338	5.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	196.000	0.000	2.000
EE05	14.749	5.600	9.085	9.085	0.103	0.103	0.103	0.103	0.000	106.080	0.000	6.800
EE06	65.070	5.600	40.080	40.080	0.453	0.453	0.453	0.453	0.000	91.080	0.000	30.000
EE07	6.941	2.500	4.275	4.275	0.048	0.048	0.048	0.048	0.000	10.792	0.000	3.200
EE08	4.989	2.300	3.073	3.073	0.035	0.035	0.035	0.035	0.000	17.820	0.000	2.300
EE09	16.484	2.000	10.154	10.154	0.115	0.115	0.115	0.115	0.000	63.960	0.000	7.600
EE10	4.989	2.000	3.073	3.073	0.035	0.035	0.035	0.035	0.000	23.400	0.000	2.300
EW01	4.772	0.910	2.939	2.939	0.033	0.033	0.033	0.033	0.000	119.700	0.000	2.200
EW02	54.225	0.910	33.400	33.400	0.378	0.378	0.378	0.378	0.000	51.450	0.000	23.000
EW03	4.338	1.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	15.488	0.000	2.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.598	15.00	0.040
EE02	100	4.701	15.00	0.313
EE03	100	0.743	15.00	0.050
EE04	100	0.940	15.00	0.063
EE05	100	1.623	15.00	0.108
EE06	100	6.073	15.00	0.405
EE07	100	0.656	15.00	0.044
EE08	100	0.501	15.00	0.033
EE09	100	1.652	15.00	0.110
EE10	100	0.315	15.00	0.034
EW01	100	0.756	15.00	0.050
EW02	100	4.983	15.00	0.332
EW03	100	0.434	15.00	0.029
Unused	100	0.000	15.00	0.000
Unused	100	0.000	15.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-251
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Lead**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	5.856	2.100	3.607	3.607	0.041	0.041	0.041	0.041	0.000	25.200	0.000	2.700
EE02	52.056	2.100	32.064	32.064	0.362	0.362	0.362	0.362	0.000	17.708	0.000	24.000
EE03	7.592	2.100	4.676	4.676	0.053	0.053	0.053	0.053	0.000	21.588	0.000	3.500
EE04	4.338	5.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	196.000	0.000	2.000
EE05	14.749	5.600	9.085	9.085	0.103	0.103	0.103	0.103	0.000	106.080	0.000	6.800
EE06	65.070	5.600	40.080	40.080	0.453	0.453	0.453	0.453	0.000	91.080	0.000	30.000
EE07	6.941	2.500	4.275	4.275	0.048	0.048	0.048	0.048	0.000	10.792	0.000	3.200
EE08	4.989	2.300	3.073	3.073	0.035	0.035	0.035	0.035	0.000	17.820	0.000	2.300
EE09	16.484	2.000	10.154	10.154	0.115	0.115	0.115	0.115	0.000	63.960	0.000	7.600
EE10	4.989	2.000	3.073	3.073	0.035	0.035	0.035	0.035	0.000	23.400	0.000	2.300
EW01	4.772	0.910	2.939	2.939	0.033	0.033	0.033	0.033	0.000	119.700	0.000	2.200
EW02	54.225	0.910	33.400	33.400	0.378	0.378	0.378	0.378	0.000	51.450	0.000	25.000
EW03	4.338	1.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	15.488	0.000	2.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.598	150.00	0.004
EE02	100	4.701	150.00	0.031
EE03	100	0.743	150.00	0.005
EE04	100	0.940	150.00	0.006
EE05	100	1.623	150.00	0.011
EE06	100	6.073	150.00	0.040
EE07	100	0.656	150.00	0.004
EE08	100	0.501	150.00	0.003
EE09	100	1.652	150.00	0.011
EE10	100	0.515	150.00	0.003
EW01	100	0.756	150.00	0.005
EW02	100	4.983	150.00	0.033
EW03	100	0.434	150.00	0.003
Unused	100	0.000	150.00	0.000
Unused	100	0.000	150.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-252
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to Lead

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	86.08	1.10	0.00	0.00	0.01	0.01	0.01	0.00	0.00	12.75	0.00	0.05
EE02	98.12	0.18	0.00	0.00	0.01	0.01	0.01	0.00	0.00	1.61	0.00	0.05
EE03	91.77	1.02	0.00	0.00	0.01	0.01	0.01	0.00	0.00	7.13	0.00	0.05
EE04	46.73	1.89	0.00	0.00	0.01	0.00	0.00	0.00	0.00	51.34	0.00	0.02
EE05	72.22	1.16	0.00	0.00	0.01	0.01	0.01	0.00	0.00	26.56	0.00	0.04
EE06	93.73	0.34	0.00	0.00	0.01	0.01	0.01	0.00	0.00	5.85	0.00	0.05
EE07	95.87	0.79	0.00	0.00	0.01	0.01	0.01	0.00	0.00	3.25	0.00	0.05
EE08	90.78	1.41	0.00	0.00	0.01	0.01	0.01	0.00	0.00	7.73	0.00	0.05
EE09	85.37	0.43	0.00	0.00	0.01	0.01	0.01	0.00	0.00	14.13	0.00	0.05
EE10	89.76	0.97	0.00	0.00	0.01	0.01	0.01	0.00	0.00	9.20	0.00	0.05
EW01	66.59	0.40	0.00	0.00	0.01	0.00	0.00	0.00	0.00	32.95	0.00	0.04
EW02	96.16	0.09	0.00	0.00	0.01	0.01	0.01	0.00	0.00	3.67	0.00	0.05
EW03	89.55	1.07	0.00	0.00	0.01	0.01	0.01	0.00	0.00	9.30	0.00	0.05
Average	84.83	0.83	0.00	0.00	0.01	0.01	0.01	0.00	0.00	14.27	0.00	0.05

**TABLE I-253
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Mercury**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.110	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.410	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.118	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.272	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.223	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.062	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.092	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.010	0.05	0.206
EE02	100	0.011	0.05	0.232
EE03	100	0.010	0.05	0.206
EE04	100	0.010	0.05	0.203
EE05	100	0.011	0.05	0.215
EE06	100	0.011	0.05	0.212
EE07	100	0.010	0.05	0.202
EE08	100	0.010	0.05	0.203
EE09	100	0.010	0.05	0.202
EE10	100	0.010	0.05	0.205
EW01	100	0.011	0.05	0.212
EW02	100	0.010	0.05	0.202
EW03	100	0.010	0.05	0.202
Unused	100	0.000	0.05	0.000
Unused	100	0.000	0.05	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-254
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Mercury

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.110	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.410	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.118	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.272	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.223	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.062	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.092	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.010	0.50	0.021
EE02	100	0.011	0.50	0.022
EE03	100	0.010	0.50	0.021
EE04	100	0.010	0.50	0.020
EE05	100	0.011	0.50	0.021
EE06	100	0.011	0.50	0.021
EE07	100	0.010	0.50	0.020
EE08	100	0.010	0.50	0.020
EE09	100	0.010	0.50	0.020
EE10	100	0.010	0.50	0.020
EW01	100	0.011	0.50	0.021
EW02	100	0.010	0.50	0.020
EW03	100	0.010	0.50	0.020
Unused	100	0.000	0.50	0.000
Unused	100	0.000	0.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-255
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Mercury**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.170	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.714	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.155	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.387	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.076	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.133	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.399	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.010	0.05	0.209
EE02	100	0.012	0.05	0.239
EE03	100	0.010	0.05	0.208
EE04	100	0.010	0.05	0.203
EE05	100	0.011	0.05	0.221
EE06	100	0.011	0.05	0.212
EE07	100	0.010	0.05	0.203
EE08	100	0.010	0.05	0.204
EE09	100	0.010	0.05	0.202
EE10	100	0.010	0.05	0.207
EW01	100	0.011	0.05	0.222
EW02	100	0.010	0.05	0.202
EW03	100	0.010	0.05	0.202
Unused	100	0.000	0.05	0.000
Unused	100	0.000	0.05	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-256
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Mercury

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.170	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.714	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.155	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.387	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.076	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.133	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.399	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.010	0.50	0.021
EE02	100	0.012	0.50	0.024
EE03	100	0.010	0.50	0.021
EE04	100	0.010	0.50	0.020
EE05	100	0.011	0.50	0.022
EE06	100	0.011	0.50	0.021
EE07	100	0.010	0.50	0.020
EE08	100	0.010	0.50	0.020
EE09	100	0.010	0.50	0.020
EE10	100	0.010	0.50	0.021
EW01	100	0.011	0.50	0.022
EW02	100	0.010	0.50	0.020
EW03	100	0.010	0.50	0.020
Unused	100	0.000	0.50	0.000
Unused	100	0.000	0.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-257
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to Mercury

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	86.67	1.40	0.00	0.00	4.70	2.35	1.86	0.00	0.00	2.93	0.00	0.10
EE02	80.25	1.29	0.00	0.00	4.35	2.17	1.73	0.00	0.00	10.11	0.00	0.09
EE03	86.49	1.39	0.00	0.00	4.69	2.34	1.86	0.00	0.00	3.13	0.00	0.10
EE04	88.06	1.42	0.00	0.00	4.77	2.39	1.89	0.00	0.00	1.37	0.00	0.10
EE05	83.09	1.34	0.00	0.00	4.50	2.25	1.79	0.00	0.00	6.93	0.00	0.10
EE06	84.14	1.36	0.00	0.00	4.56	2.28	1.81	0.00	0.00	5.76	0.00	0.10
EE07	88.08	1.42	0.00	0.00	4.77	2.39	1.89	0.00	0.00	1.35	0.00	0.10
EE08	87.78	1.42	0.00	0.00	4.76	2.38	1.89	0.00	0.00	1.68	0.00	0.10
EE09	88.10	1.42	0.00	0.00	4.77	2.39	1.89	0.00	0.00	1.32	0.00	0.10
EE10	87.09	1.40	0.00	0.00	4.72	2.36	1.87	0.00	0.00	2.45	0.00	0.10
EW01	84.08	1.36	0.00	0.00	4.56	2.28	1.81	0.00	0.00	5.82	0.00	0.10
EW02	88.10	1.42	0.00	0.00	4.77	2.39	1.89	0.00	0.00	1.33	0.00	0.10
EW03	88.10	1.42	0.00	0.00	4.77	2.39	1.89	0.00	0.00	1.32	0.00	0.10
Average	86.16	1.39	0.00	0.00	4.67	2.33	1.85	0.00	0.00	3.50	0.00	0.10

TABLE I-258
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Molybdenum

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1,400	1,000	1,400	1,400	1,400	1,400	1,400	1,400	0.000	1,621	0.000	14,000
EE02	47,200	1,000	47,200	47,200	47,200	47,200	47,200	47,200	0.000	3,846	0.000	472,000
EE03	21,500	1,000	21,500	21,500	21,500	21,500	21,500	21,500	0.000	1,209	0.000	215,000
EE04	10,300	1,000	10,300	10,300	10,300	10,300	10,300	10,300	0.000	2,018	0.000	103,000
EE05	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0.000	0,881	0.000	10,000
EE06	7,300	1,000	7,300	7,300	7,300	7,300	7,300	7,300	0.000	5,520	0.000	73,000
EE07	10,900	1,000	10,900	10,900	10,900	10,900	10,900	10,900	0.000	0,995	0.000	109,000
EE08	4,250	1,000	4,250	4,250	4,250	4,250	4,250	4,250	0.000	0,851	0.000	42,500
EE09	3,400	1,000	3,400	3,400	3,400	3,400	3,400	3,400	0.000	1,545	0.000	34,000
EE10	3,300	1,000	3,300	3,300	3,300	3,300	3,300	3,300	0.000	1,011	0.000	33,000
EW01	2,500	1,000	2,500	2,500	2,500	2,500	2,500	2,500	0.000	23,050	0.000	25,000
EW02	1,500	1,000	1,500	1,500	1,500	1,500	1,500	1,500	0.000	2,020	0.000	15,000
EW03	1,350	1,000	1,350	1,350	1,350	1,350	1,350	1,350	0.000	0,617	0.000	13,500
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.139	0.03	4.633
EE02	100	4.452	0.03	148.405
EE03	100	2.028	0.03	67.602
EE04	100	0.977	0.03	32.568
EE05	100	0.099	0.03	3.311
EE06	100	0.704	0.03	23.483
EE07	100	1.031	0.03	34.355
EE08	100	0.405	0.03	13.496
EE09	100	0.327	0.03	10.895
EE10	100	0.316	0.03	10.533
EW01	100	0.301	0.03	10.038
EW02	100	0.149	0.03	4.982
EW03	100	0.132	0.03	4.384
Unused	100	0.000	0.03	0.000
Unused	100	0.000	0.03	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-259
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Molybdenum

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1,400	1,000	1,400	1,400	1,400	1,400	1,400	1,400	0.000	1,621	0.000	14,000
EE02	47,200	1,000	47,200	47,200	47,200	47,200	47,200	47,200	0.000	3,846	0.000	472,000
EE03	21,500	1,000	21,500	21,500	21,500	21,500	21,500	21,500	0.000	1,209	0.000	215,000
EE04	10,300	1,000	10,300	10,300	10,300	10,300	10,300	10,300	0.000	2,018	0.000	103,000
EE05	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0.000	0.881	0.000	10,000
EE06	7,300	1,000	7,300	7,300	7,300	7,300	7,300	7,300	0.000	5,520	0.000	73,000
EE07	10,900	1,000	10,900	10,900	10,900	10,900	10,900	10,900	0.000	0.995	0.000	109,000
EE08	4,250	1,000	4,250	4,250	4,250	4,250	4,250	4,250	0.000	0.851	0.000	42,500
EE09	3,400	1,000	3,400	3,400	3,400	3,400	3,400	3,400	0.000	1,545	0.000	34,000
EE10	3,300	1,000	3,300	3,300	3,300	3,300	3,300	3,300	0.000	1,011	0.000	33,000
EW01	2,500	1,000	2,500	2,500	2,500	2,500	2,500	2,500	0.000	23,050	0.000	23,000
EW02	1,500	1,000	1,500	1,500	1,500	1,500	1,500	1,500	0.000	2,020	0.000	15,000
EW03	1,350	1,000	1,350	1,350	1,350	1,350	1,350	1,350	0.000	0.617	0.000	13,500
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.139	0.30	0.463
EE02	100	4.452	0.30	14.841
EE03	100	2.028	0.30	6.760
EE04	100	0.977	0.30	3.257
EE05	100	0.099	0.30	0.331
EE06	100	0.704	0.30	2.348
EE07	100	1.031	0.30	3.436
EE08	100	0.405	0.30	1.350
EE09	100	0.327	0.30	1.089
EE10	100	0.316	0.30	1.053
EW01	100	0.301	0.30	1.004
EW02	100	0.149	0.30	0.498
EW03	100	0.132	0.30	0.438
Unused	100	0.000	0.30	0.000
Unused	100	0.000	0.30	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-260
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Molybdenum

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1,800	1,000	1,800	1,800	1,800	1,800	1,800	1,800	0.000	1,992	0.000	18,000
EE02	85,000	1,000	85,000	85,000	85,000	85,000	85,000	85,000	0.000	4,956	0.000	850,000
EE03	25,000	1,000	25,000	25,000	25,000	25,000	25,000	25,000	0.000	1,428	0.000	250,000
EE04	17,000	1,000	17,000	17,000	17,000	17,000	17,000	17,000	0.000	3,040	0.000	170,000
EE05	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0.000	0,989	0.000	10,000
EE06	11,000	1,000	11,000	11,000	11,000	11,000	11,000	11,000	0.000	6,292	0.000	110,000
EE07	13,000	1,000	13,000	13,000	13,000	13,000	13,000	13,000	0.000	0,996	0.000	130,000
EE08	7,200	1,000	7,200	7,200	7,200	7,200	7,200	7,200	0.000	1,013	0.000	72,000
EE09	5,800	1,000	5,800	5,800	5,800	5,800	5,800	5,800	0.000	2,106	0.000	58,000
EE10	5,600	1,000	5,600	5,600	5,600	5,600	5,600	5,600	0.000	1,014	0.000	56,000
EW01	3,200	1,000	3,200	3,200	3,200	3,200	3,200	3,200	0.000	40,740	0.000	32,000
EW02	2,000	1,000	2,000	2,000	2,000	2,000	2,000	2,000	0.000	2,400	0.000	20,000
EW03	1,700	1,000	1,700	1,700	1,700	1,700	1,700	1,700	0.000	0,984	0.000	17,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.178	0.03	5.970
EE02	100	8.010	0.03	266.998
EE03	100	2.358	0.03	78.594
EE04	100	1.610	0.03	53.663
EE05	100	0.100	0.03	3.321
EE06	100	1.055	0.03	35.152
EE07	100	1.228	0.03	40.938
EE08	100	0.683	0.03	22.758
EE09	100	0.554	0.03	18.469
EE10	100	0.332	0.03	17.743
EW01	100	0.415	0.03	13.847
EW02	100	0.198	0.03	6.984
EW03	100	0.165	0.03	5.515
Unused	100	0.000	0.03	0.000
Unused	100	0.000	0.03	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-261
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Molybdenum

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1,800	1,000	1,800	1,800	1,800	1,800	1,800	1,800	0.000	1,992	0.000	18,000
EE02	85,000	1,000	85,000	85,000	85,000	85,000	85,000	85,000	0.000	4,956	0.000	850,000
EE03	25,000	1,000	25,000	25,000	25,000	25,000	25,000	25,000	0.000	1,428	0.000	250,000
EE04	17,000	1,000	17,000	17,000	17,000	17,000	17,000	17,000	0.000	3,040	0.000	170,000
EE05	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0.000	0,989	0.000	10,000
EE06	11,000	1,000	11,000	11,000	11,000	11,000	11,000	11,000	0.000	6,292	0.000	110,000
EE07	13,000	1,000	13,000	13,000	13,000	13,000	13,000	13,000	0.000	0,996	0.000	130,000
EE08	7,200	1,000	7,200	7,200	7,200	7,200	7,200	7,200	0.000	1,013	0.000	72,000
EE09	5,800	1,000	5,800	5,800	5,800	5,800	5,800	5,800	0.000	2,106	0.000	58,000
EE10	5,600	1,000	5,600	5,600	5,600	5,600	5,600	5,600	0.000	1,014	0.000	56,000
EW01	3,200	1,000	3,200	3,200	3,200	3,200	3,200	3,200	0.000	40,740	0.000	32,000
EW02	2,000	1,000	2,000	2,000	2,000	2,000	2,000	2,000	0.000	2,400	0.000	20,000
EW03	1,700	1,000	1,700	1,700	1,700	1,700	1,700	1,700	0.000	0,984	0.000	17,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.178	0.30	0.592
EE02	100	8.010	0.30	26.700
EE03	100	2.358	0.30	7.859
EE04	100	1.610	0.30	5.366
EE05	100	0.100	0.30	0.332
EE06	100	1.055	0.30	3.515
EE07	100	1.228	0.30	4.094
EE08	100	0.683	0.30	2.276
EE09	100	0.554	0.30	1.847
EE10	100	0.532	0.30	1.774
EW01	100	0.415	0.30	1.385
EW02	100	0.198	0.30	0.658
EW03	100	0.165	0.30	0.551
Unused	100	0.000	0.30	0.000
Unused	100	0.000	0.30	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-262
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to Molybdenum

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	89.84	2.07	0.00	0.00	1.93	0.97	0.97	0.00	0.00	3.20	0.00	1.03
EE02	94.54	0.06	0.00	0.00	2.03	1.02	1.02	0.00	0.00	0.24	0.00	1.09
EE03	94.54	0.14	0.00	0.00	2.03	1.02	1.02	0.00	0.00	0.16	0.00	1.09
EE04	94.01	0.29	0.00	0.00	2.02	1.01	1.01	0.00	0.00	0.57	0.00	1.08
EE05	89.78	2.90	0.00	0.00	1.93	0.97	0.97	0.00	0.00	2.43	0.00	1.03
EE06	92.41	0.41	0.00	0.00	1.99	0.99	0.99	0.00	0.00	2.15	0.00	1.06
EE07	94.31	0.28	0.00	0.00	2.03	1.01	1.01	0.00	0.00	0.26	0.00	1.09
EE08	93.61	0.71	0.00	0.00	2.01	1.01	1.01	0.00	0.00	0.58	0.00	1.08
EE09	92.77	0.88	0.00	0.00	1.99	1.00	1.00	0.00	0.00	1.30	0.00	1.07
EE10	93.13	0.91	0.00	0.00	2.00	1.00	1.00	0.00	0.00	0.88	0.00	1.07
EW01	74.04	0.96	0.00	0.00	1.59	0.80	0.80	0.00	0.00	20.97	0.00	0.85
EW02	89.49	1.92	0.00	0.00	1.92	0.96	0.96	0.00	0.00	3.70	0.00	1.03
EW03	91.54	2.19	0.00	0.00	1.97	0.98	0.98	0.00	0.00	1.29	0.00	1.05
Average	91.08	1.06	0.00	0.00	1.96	0.98	0.98	0.00	0.00	2.90	0.00	1.05

**TABLE I-263
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Nickel**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	6.864	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	47.934	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	13.810	0.000	20.000
EE04	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	21.815	0.000	20.000
EE05	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	200.470	0.000	20.000
EE06	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	135.033	0.000	20.000
EE07	1.475	1.700	1.475	1.475	0.031	0.031	0.031	0.031	0.000	19.937	0.000	14.750
EE08	1.500	1.800	1.500	1.500	0.032	0.032	0.032	0.032	0.000	21.024	0.000	15.000
EE09	1.700	1.530	1.700	1.700	0.036	0.036	0.036	0.036	0.000	65.658	0.000	17.000
EE10	2.000	1.530	2.000	2.000	0.042	0.042	0.042	0.042	0.000	41.703	0.000	20.000
EW01	6.900	1.000	6.900	6.900	0.145	0.145	0.145	0.145	0.000	1002.100	0.000	69.000
EW02	1.650	1.000	1.650	1.650	0.035	0.035	0.035	0.035	0.000	51.675	0.000	16.500
EW03	1.600	1.900	1.600	1.600	0.034	0.034	0.034	0.034	0.000	12.551	0.000	16.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.203	0.67	0.303
EE02	100	0.315	0.67	0.471
EE03	100	0.222	0.67	0.331
EE04	100	0.245	0.67	0.365
EE05	100	0.734	0.67	1.096
EE06	100	0.555	0.67	0.828
EE07	100	0.193	0.67	0.288
EE08	100	0.198	0.67	0.296
EE09	100	0.338	0.67	0.504
EE10	100	0.299	0.67	0.447
EW01	100	3.371	0.67	5.032
EW02	100	0.293	0.67	0.438
EW03	100	0.184	0.67	0.275
Unused	100	0.000	0.67	0.000
Unused	100	0.000	0.67	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-264
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Nickel**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	6.864	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	47.934	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	13.810	0.000	20.000
EE04	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	21.815	0.000	20.000
EE05	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	200.470	0.000	20.000
EE06	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	135.033	0.000	20.000
EE07	1.475	1.700	1.475	1.475	0.031	0.031	0.031	0.031	0.000	19.937	0.000	14.750
EE08	1.500	1.800	1.500	1.500	0.032	0.032	0.032	0.032	0.000	21.024	0.000	15.000
EE09	1.700	1.530	1.700	1.700	0.036	0.036	0.036	0.036	0.000	65.658	0.000	17.000
EE10	2.000	1.530	2.000	2.000	0.042	0.042	0.042	0.042	0.000	41.703	0.000	20.000
EW01	6.900	1.000	6.900	6.900	0.145	0.145	0.145	0.145	0.000	1002.100	0.000	69.000
EW02	1.650	1.000	1.650	1.650	0.035	0.035	0.035	0.035	0.000	51.675	0.000	16.500
EW03	1.600	1.900	1.600	1.600	0.034	0.034	0.034	0.034	0.000	12.551	0.000	16.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.203	0.67	0.303
EE02	100	0.315	0.67	0.471
EE03	100	0.222	0.67	0.331
EE04	100	0.245	0.67	0.365
EE05	100	0.734	0.67	1.096
EE06	100	0.555	0.67	0.828
EE07	100	0.193	0.67	0.288
EE08	100	0.198	0.67	0.296
EE09	100	0.338	0.67	0.504
EE10	100	0.299	0.67	0.447
EW01	100	3.371	0.67	5.032
EW02	100	0.293	0.67	0.438
EW03	100	0.184	0.67	0.275
Unused	100	0.000	0.67	0.000
Unused	100	0.000	0.67	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-265
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Nickel

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	8.000	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	48.216	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	17.372	0.000	20.000
EE04	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	25.149	0.000	20.000
EE05	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	238.180	0.000	20.000
EE06	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	228.800	0.000	20.000
EE07	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	36.636	0.000	20.000
EE08	2.000	1.800	2.000	2.000	0.042	0.042	0.042	0.042	0.000	32.319	0.000	20.000
EE09	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	107.420	0.000	20.000
EE10	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	75.426	0.000	20.000
EW01	9.900	1.000	9.900	9.900	0.208	0.208	0.208	0.208	0.000	1751.400	0.000	99.000
EW02	2.000	1.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	78.750	0.000	20.000
EW03	2.000	1.900	2.000	2.000	0.042	0.042	0.042	0.042	0.000	20.592	0.000	20.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.206	0.67	0.307
EE02	100	0.316	0.67	0.472
EE03	100	0.232	0.67	0.346
EE04	100	0.236	0.67	0.381
EE05	100	0.894	0.67	1.334
EE06	100	0.813	0.67	1.214
EE07	100	0.287	0.67	0.428
EE08	100	0.274	0.67	0.409
EE09	100	0.481	0.67	0.717
EE10	100	0.393	0.67	0.587
EW01	100	5.695	0.67	8.500
EW02	100	0.399	0.67	0.596
EW03	100	0.242	0.67	0.362
Unused	100	0.000	0.67	0.000
Unused	100	0.000	0.67	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-266
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Nickel

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	8.000	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	48.216	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	17.372	0.000	20.000
EE04	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	25.149	0.000	20.000
EE05	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	258.180	0.000	20.000
EE06	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	228.800	0.000	20.000
EE07	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	36.636	0.000	20.000
EE08	2.000	1.800	2.000	2.000	0.042	0.042	0.042	0.042	0.000	32.319	0.000	20.000
EE09	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	107.420	0.000	20.000
EE10	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	75.426	0.000	20.000
EW01	9.900	1.000	9.900	9.900	0.208	0.208	0.208	0.208	0.000	1751.400	0.000	99.000
EW02	2.000	1.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	78.750	0.000	20.000
EW03	2.000	1.900	2.000	2.000	0.042	0.042	0.042	0.042	0.000	20.592	0.000	20.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.206	0.67	0.307
EE02	100	0.316	0.67	0.472
EE03	100	0.232	0.67	0.346
EE04	100	0.256	0.67	0.381
EE05	100	0.894	0.67	1.334
EE06	100	0.813	0.67	1.214
EE07	100	0.287	0.67	0.428
EE08	100	0.274	0.67	0.409
EE09	100	0.481	0.67	0.717
EE10	100	0.393	0.67	0.587
EW01	100	5.695	0.67	8.500
EW02	100	0.399	0.67	0.596
EW03	100	0.242	0.67	0.362
Unused	100	0.000	0.67	0.000
Unused	100	0.000	0.67	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-267
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to Nickel

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	87.93	1.70	0.00	0.00	0.04	0.02	0.02	0.00	0.00	9.27	0.00	1.01
EE02	56.56	1.09	0.00	0.00	0.03	0.01	0.01	0.00	0.00	41.64	0.00	0.65
EE03	80.39	1.56	0.00	0.00	0.04	0.02	0.02	0.00	0.00	17.05	0.00	0.93
EE04	72.84	1.84	0.00	0.00	0.03	0.02	0.02	0.00	0.00	24.41	0.00	0.84
EE05	24.29	0.62	0.00	0.00	0.01	0.01	0.01	0.00	0.00	74.79	0.00	0.28
EE06	32.13	0.81	0.00	0.00	0.01	0.01	0.01	0.00	0.00	66.65	0.00	0.37
EE07	68.27	2.54	0.00	0.00	0.03	0.02	0.02	0.00	0.00	28.35	0.00	0.79
EE08	67.49	2.61	0.00	0.00	0.03	0.02	0.02	0.00	0.00	29.06	0.00	0.78
EE09	44.88	1.30	0.00	0.00	0.02	0.01	0.01	0.00	0.00	53.26	0.00	0.52
EE10	59.61	1.47	0.00	0.00	0.03	0.01	0.01	0.00	0.00	38.18	0.00	0.69
EW01	18.25	0.09	0.00	0.00	0.01	0.00	0.00	0.00	0.00	81.44	0.00	0.21
EW02	50.15	0.98	0.00	0.00	0.02	0.01	0.01	0.00	0.00	48.25	0.00	0.58
EW03	77.42	2.97	0.00	0.00	0.03	0.02	0.02	0.00	0.00	18.66	0.00	0.89
Average	56.94	1.51	0.00	0.00	0.03	0.01	0.01	0.00	0.00	40.85	0.00	0.66

TABLE I-273
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Silver

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.348	0.000	0.060
EE02	0.011	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.733	0.000	0.055
EE03	0.023	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.762	0.000	0.115
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.489	0.000	0.050
EE05	0.030	0.320	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.968	0.000	0.150
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.358	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.853	0.000	0.050
EE08	0.024	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.826	0.000	0.120
EE09	0.019	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.491	0.000	0.095
EE10	0.010	1.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.514	0.000	0.050
EW01	0.017	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.316	0.000	0.085
EW02	0.018	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	2.705	0.000	0.090
EW03	0.010	0.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.774	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Air Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.020	0.67	0.030
EE02	100	0.008	0.67	0.011
EE03	100	0.006	0.67	0.009
EE04	100	0.003	0.67	0.005
EE05	100	0.028	0.67	0.042
EE06	100	0.019	0.67	0.029
EE07	100	0.004	0.67	0.006
EE08	100	0.008	0.67	0.013
EE09	100	0.018	0.67	0.026
EE10	100	0.011	0.67	0.017
EW01	100	0.026	0.67	0.039
EW02	100	0.011	0.67	0.017
EW03	100	0.004	0.67	0.007
Unused	100	0.000	0.67	0.000
Unused	100	0.000	0.67	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-274
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Silver**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.348	0.000	0.060
EE02	0.011	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.733	0.000	0.055
EE03	0.023	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.762	0.000	0.115
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.489	0.000	0.050
EE05	0.030	0.320	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.968	0.000	0.150
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.358	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.853	0.000	0.050
EE08	0.024	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.826	0.000	0.120
EE09	0.019	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.491	0.000	0.095
EE10	0.010	1.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.514	0.000	0.050
EW01	0.017	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.316	0.000	0.085
EW02	0.018	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	2.705	0.000	0.090
EW03	0.010	0.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.774	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.020	2.70	0.008
EE02	100	0.008	2.70	0.003
EE03	100	0.006	2.70	0.002
EE04	100	0.003	2.70	0.001
EE05	100	0.028	2.70	0.010
EE06	100	0.019	2.70	0.007
EE07	100	0.004	2.70	0.002
EE08	100	0.008	2.70	0.003
EE09	100	0.018	2.70	0.007
EE10	100	0.011	2.70	0.004
EW01	100	0.026	2.70	0.010
EW02	100	0.011	2.70	0.004
EW03	100	0.004	2.70	0.002
Unused	100	0.000	2.70	0.000
Unused	100	0.000	2.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-275
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Silver

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.014	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.700	0.000	0.070
EE02	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.478	0.000	0.060
EE03	0.036	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.006	0.000	0.180
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.498	0.000	0.050
EE05	0.050	0.320	0.001	0.001	0.002	0.002	0.002	0.002	0.000	9.594	0.000	0.250
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.648	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.207	0.000	0.050
EE08	0.038	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.134	0.000	0.190
EE09	0.028	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	5.822	0.000	0.140
EE10	0.010	1.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.524	0.000	0.050
EW01	0.024	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	15.120	0.000	0.120
EW02	0.026	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.425	0.000	0.130
EW03	0.010	0.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.056	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.035	0.67	0.953
EE02	100	0.010	0.67	0.815
EE03	100	0.008	0.67	0.812
EE04	100	0.003	0.67	0.805
EE05	100	0.032	0.67	0.847
EE06	100	0.031	0.67	0.846
EE07	100	0.005	0.67	0.808
EE08	100	0.011	0.67	0.817
EE09	100	0.023	0.67	0.835
EE10	100	0.018	0.67	0.827
EW01	100	0.046	0.67	0.869
EW02	100	0.017	0.67	0.875
EW03	100	0.006	0.67	0.808
Unused	100	0.000	0.67	0.000
Unused	100	0.000	0.67	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-276
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Silver

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Rapids/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.014	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.700	0.000	0.070
EE02	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.478	0.000	0.060
EE03	0.006	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.008	0.000	0.180
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.498	0.000	0.050
EE05	0.050	0.320	0.001	0.001	0.002	0.002	0.002	0.002	0.000	9.594	0.000	0.250
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.648	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.207	0.000	0.050
EE08	0.038	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.134	0.000	0.190
EE09	0.028	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	5.822	0.000	0.140
EE10	0.010	1.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.524	0.000	0.050
EW01	0.024	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	15.120	0.000	0.120
EW02	0.026	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.425	0.000	0.130
EW03	0.010	0.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.056	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.035	2.70	0.013
EE02	100	0.010	2.70	0.004
EE03	100	0.008	2.70	0.003
EE04	100	0.003	2.70	0.001
EE05	100	0.032	2.70	0.012
EE06	100	0.031	2.70	0.011
EE07	100	0.005	2.70	0.002
EE08	100	0.011	2.70	0.004
EE09	100	0.023	2.70	0.009
EE10	100	0.018	2.70	0.007
EW01	100	0.046	2.70	0.017
EW02	100	0.017	2.70	0.006
EW03	100	0.006	2.70	0.002
Unused	100	0.000	2.70	0.000
Unused	100	0.000	2.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Rapids/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-277
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Muskrat exposed to Silver

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	5.26	9.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.51	0.00	0.03
EE02	12.90	24.58	0.00	0.00	0.01	0.00	0.00	0.00	0.00	62.43	0.00	0.07
EE03	34.05	31.04	0.00	0.00	0.02	0.01	0.01	0.00	0.00	34.66	0.00	0.20
EE04	28.24	29.15	0.00	0.00	0.02	0.01	0.01	0.00	0.00	42.42	0.00	0.16
EE05	9.49	3.27	0.00	0.00	0.01	0.00	0.00	0.00	0.00	87.17	0.00	0.05
EE06	4.64	4.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.55	0.00	0.03
EE07	21.47	22.16	0.00	0.00	0.01	0.01	0.01	0.00	0.00	56.22	0.00	0.12
EE08	26.42	45.46	0.00	0.00	0.02	0.01	0.01	0.00	0.00	27.93	0.00	0.15
EE09	9.58	20.81	0.00	0.00	0.01	0.00	0.00	0.00	0.00	69.54	0.00	0.06
EE10	7.78	32.11	0.00	0.00	0.01	0.00	0.00	0.00	0.00	60.06	0.00	0.04
EW01	5.73	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.11	0.00	0.03
EW02	14.36	19.23	0.00	0.00	0.01	0.00	0.00	0.00	0.00	66.30	0.00	0.08
EW03	20.40	30.93	0.00	0.00	0.01	0.01	0.01	0.00	0.00	48.52	0.00	0.12
Average	15.41	21.60	0.00	0.00	0.01	0.01	0.01	0.00	0.00	62.88	0.00	0.09

TABLE I-278
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Pentachlorophenol

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.028	0.800	42.653	37.321	289.834	193.223	57.408	114.815	0.000	2.513	0.000	25.000
EE02	0.059	0.800	90.173	78.901	289.834	193.223	57.408	114.815	0.000	5.586	0.000	25.000
EE03	0.031	0.800	47.611	41.659	289.834	193.223	57.408	114.815	0.000	2.392	0.000	25.000
EE04	0.022	3.200	33.763	29.543	289.834	193.223	57.408	114.815	0.000	0.794	0.000	25.000
EE05	0.310	3.200	476.905	417.292	289.834	193.223	57.408	114.815	0.000	6.035	0.000	25.000
EE06	0.041	3.200	63.503	55.565	289.834	193.223	57.408	114.815	0.000	2.380	0.000	25.000
EE07	0.048	3.200	74.236	64.957	289.834	193.223	57.408	114.815	0.000	0.803	0.000	25.000
EE08	0.071	3.200	109.410	95.734	289.834	193.223	57.408	114.815	0.000	1.216	0.000	25.000
EE09	0.008	3.200	12.822	11.219	289.834	193.223	57.408	114.815	0.000	0.815	0.000	25.000
EE10	0.077	3.200	119.334	104.417	289.834	193.223	57.408	114.815	0.000	0.789	0.000	25.000
EW01	0.014	3.200	21.458	18.776	289.834	193.223	57.408	114.815	0.000	1.598	0.000	25.000
EW02	0.046	3.200	70.236	61.456	289.834	193.223	57.408	114.815	0.000	0.783	0.000	25.000
EW03	0.115	3.200	177.318	155.154	289.834	193.223	57.408	114.815	0.000	0.806	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.810	3.00	0.270
EE02	100	0.822	3.00	0.274
EE03	100	0.810	3.00	0.270
EE04	100	0.812	3.00	0.271
EE05	100	0.852	3.00	0.284
EE06	100	0.818	3.00	0.273
EE07	100	0.814	3.00	0.271
EE08	100	0.818	3.00	0.273
EE09	100	0.811	3.00	0.270
EE10	100	0.817	3.00	0.272
EW01	100	0.814	3.00	0.271
EW02	100	0.814	3.00	0.271
EW03	100	0.820	3.00	0.273
--	100	0.000	3.00	0.000
--	100	0.000	3.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-279
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Pentachlorophenol

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.028	0.800	42.653	37.321	289.834	193.223	57.408	114.815	0.000	2.513	0.000	25.000
EE02	0.059	0.800	90.173	78.901	289.834	193.223	57.408	114.815	0.000	5.586	0.000	25.000
EE03	0.031	0.800	47.611	41.659	289.834	193.223	57.408	114.815	0.000	2.392	0.000	25.000
EE04	0.022	3.200	33.763	29.543	289.834	193.223	57.408	114.815	0.000	0.794	0.000	25.000
EE05	0.310	3.200	476.905	417.292	289.834	193.223	57.408	114.815	0.000	6.035	0.000	25.000
EE06	0.041	3.200	63.503	55.565	289.834	193.223	57.408	114.815	0.000	2.380	0.000	25.000
EE07	0.048	3.200	74.236	64.957	289.834	193.223	57.408	114.815	0.000	0.803	0.000	25.000
EE08	0.071	3.200	109.410	95.734	289.834	193.223	57.408	114.815	0.000	1.216	0.000	25.000
EE09	0.008	3.200	12.822	11.219	289.834	193.223	57.408	114.815	0.000	0.815	0.000	25.000
EE10	0.077	3.200	119.334	104.417	289.834	193.223	57.408	114.815	0.000	0.789	0.000	25.000
EW01	0.014	3.200	21.458	18.776	289.834	193.223	57.408	114.815	0.000	1.598	0.000	25.000
EW02	0.046	3.200	70.236	61.456	289.834	193.223	57.408	114.815	0.000	0.783	0.000	25.000
EW03	0.115	3.200	177.318	155.154	289.834	193.223	57.408	114.815	0.000	0.806	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	100	0.810	5.00	0.162	
EE02	100	0.822	5.00	0.164	
EE03	100	0.810	5.00	0.162	
EE04	100	0.812	5.00	0.162	
EE05	100	0.852	5.00	0.170	
EE06	100	0.818	5.00	0.164	
EE07	100	0.814	5.00	0.163	
EE08	100	0.818	5.00	0.164	
EE09	100	0.811	5.00	0.162	
EE10	100	0.817	5.00	0.163	
EW01	100	0.814	5.00	0.163	
EW02	100	0.814	5.00	0.163	
EW03	100	0.820	5.00	0.164	
--	100	0.000	5.00	0.000	
--	100	0.000	5.00	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-280
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Pentachlorophenol

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.046	0.800	70.723	61.883	289.834	193.223	57.408	114.815	0.000	4.026	0.000	25.000
EE02	0.086	0.800	132.421	115.869	289.834	193.223	57.408	114.815	0.000	7.980	0.000	25.000
EE03	0.042	0.800	64.043	56.037	289.834	193.223	57.408	114.815	0.000	3.192	0.000	25.000
EE04	0.022	3.200	34.629	30.300	289.834	193.223	57.408	114.815	0.000	0.800	0.000	25.000
EE05	0.406	3.200	624.910	546.797	289.834	193.223	57.408	114.815	0.000	8.170	0.000	25.000
EE06	0.069	3.200	106.827	93.474	289.834	193.223	57.408	114.815	0.000	3.960	0.000	25.000
EE07	0.053	3.200	81.306	71.143	289.834	193.223	57.408	114.815	0.000	0.817	0.000	25.000
EE08	0.100	3.200	153.501	134.314	289.834	193.223	57.408	114.815	0.000	1.622	0.000	25.000
EE09	0.008	3.200	12.822	11.219	289.834	193.223	57.408	114.815	0.000	0.820	0.000	25.000
EE10	0.079	3.200	122.394	107.095	289.834	193.223	57.408	114.815	0.000	0.798	0.000	25.000
EW01	0.018	3.200	28.118	24.603	289.834	193.223	57.408	114.815	0.000	1.600	0.000	25.000
EW02	0.048	3.200	73.747	64.529	289.834	193.223	57.408	114.815	0.000	0.788	0.000	25.000
EW03	0.121	3.200	186.651	163.320	289.834	193.223	57.408	114.815	0.000	0.820	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.816	3.00	0.272
EE02	100	0.831	3.00	0.277
EE03	100	0.813	3.00	0.271
EE04	100	0.812	3.00	0.271
EE05	100	0.867	3.00	0.289
EE06	100	0.825	3.00	0.275
EE07	100	0.815	3.00	0.272
EE08	100	0.821	3.00	0.274
EE09	100	0.811	3.00	0.270
EE10	100	0.817	3.00	0.272
EW01	100	0.814	3.00	0.271
EW02	100	0.814	3.00	0.271
EW03	100	0.821	3.00	0.274
--	100	0.000	3.00	0.000
--	100	0.000	3.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-281
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Pentachlorophenol

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.046	0.800	70.723	61.883	289.834	193.223	57.408	114.815	0.000	4.026	0.000	25.000
EE02	0.086	0.800	132.421	115.869	289.834	193.223	57.408	114.815	0.000	7.980	0.000	25.000
EE03	0.042	0.800	64.043	56.037	289.834	193.223	57.408	114.815	0.000	3.192	0.000	25.000
EE04	0.022	3.200	34.629	30.300	289.834	193.223	57.408	114.815	0.000	0.800	0.000	25.000
EE05	0.406	3.200	624.910	546.797	289.834	193.223	57.408	114.815	0.000	8.170	0.000	25.000
EE06	0.069	3.200	106.827	93.474	289.834	193.223	57.408	114.815	0.000	3.960	0.000	25.000
EE07	0.053	3.200	81.306	71.143	289.834	193.223	57.408	114.815	0.000	0.817	0.000	25.000
EE08	0.100	3.200	153.501	134.314	289.834	193.223	57.408	114.815	0.000	1.622	0.000	25.000
EE09	0.008	3.200	12.822	11.219	289.834	193.223	57.408	114.815	0.000	0.820	0.000	25.000
EE10	0.079	3.200	122.394	107.095	289.834	193.223	57.408	114.815	0.000	0.798	0.000	25.000
EW01	0.018	3.200	28.118	24.603	289.834	193.223	57.408	114.815	0.000	1.600	0.000	25.000
EW02	0.048	3.200	73.747	64.529	289.834	193.223	57.408	114.815	0.000	0.788	0.000	25.000
EW03	0.121	3.200	186.651	163.320	289.834	193.223	57.408	114.815	0.000	0.820	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.816	5.00	0.163
EE02	100	0.831	5.00	0.166
EE03	100	0.813	5.00	0.163
EE04	100	0.812	5.00	0.162
EE05	100	0.867	5.00	0.173
EE06	100	0.825	5.00	0.165
EE07	100	0.815	5.00	0.163
EE08	100	0.821	5.00	0.164
EE09	100	0.811	5.00	0.162
EE10	100	0.817	5.00	0.163
EW01	100	0.814	5.00	0.163
EW02	100	0.814	5.00	0.163
EW03	100	0.821	5.00	0.164
--	100	0.000	5.00	0.000
--	100	0.000	5.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-282
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Muskrat exposed to Pentachlorophenol

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.30	0.28	0.00	0.00	68.59	22.86	6.79	0.00	0.00	0.85	0.00	0.32
EE02	0.64	0.28	0.00	0.00	67.66	22.55	6.70	0.00	0.00	1.86	0.00	0.31
EE03	0.34	0.28	0.00	0.00	68.59	22.86	6.79	0.00	0.00	0.81	0.00	0.32
EE04	0.24	1.13	0.00	0.00	68.45	22.82	6.78	0.00	0.00	0.27	0.00	0.32
EE05	3.24	1.08	0.00	0.00	65.23	21.74	6.46	0.00	0.00	1.94	0.00	0.30
EE06	0.45	1.13	0.00	0.00	67.94	22.65	6.73	0.00	0.00	0.80	0.00	0.31
EE07	0.53	1.13	0.00	0.00	68.25	22.75	6.76	0.00	0.00	0.27	0.00	0.32
EE08	0.77	1.13	0.00	0.00	67.98	22.66	6.73	0.00	0.00	0.41	0.00	0.31
EE09	0.09	1.14	0.00	0.00	68.54	22.85	6.79	0.00	0.00	0.28	0.00	0.32
EE10	0.85	1.13	0.00	0.00	68.03	22.68	6.74	0.00	0.00	0.26	0.00	0.31
EW01	0.15	1.13	0.00	0.00	68.32	22.77	6.77	0.00	0.00	0.54	0.00	0.32
EW02	0.50	1.13	0.00	0.00	68.27	22.76	6.76	0.00	0.00	0.26	0.00	0.32
EW03	1.25	1.12	0.00	0.00	67.75	22.58	6.71	0.00	0.00	0.27	0.00	0.31
Average	0.72	0.93	0.00	0.00	67.97	22.66	6.73	0.00	0.00	0.68	0.00	0.31

**TABLE I-283
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Total PCBs**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.003	1.998	454.920	398.055	593.850	395.900	29.929	59.858	0.000	5.815	0.000	0.750
EE02	0.003	1.998	454.920	398.055	395.900	263.933	19.953	39.905	0.000	24.237	0.000	0.500
EE03	0.000	1.998	57.606	50.406	395.900	263.933	19.953	39.905	0.000	0.582	0.000	0.500
EE04	0.001	2.697	113.246	99.090	395.900	263.933	19.953	39.905	0.000	0.531	0.000	0.500
EE05	0.003	2.697	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.770	0.000	0.500
EE06	0.001	2.697	95.927	83.936	395.900	263.933	19.953	39.905	0.000	0.727	0.000	0.500
EE07	0.000	0.600	81.145	71.002	395.900	263.933	19.953	39.905	0.000	0.168	0.000	0.500
EE08	0.000	1.665	47.224	41.321	395.900	263.933	19.953	39.905	0.000	0.114	0.000	0.500
EE09	0.000	0.767	12.081	10.571	395.900	263.933	19.953	39.905	0.000	0.153	0.000	0.500
EE10	0.001	0.767	203.043	177.663	395.900	263.933	19.953	39.905	0.000	0.265	0.000	0.500
EW01	0.003	3.180	454.920	398.055	395.900	263.933	19.953	39.905	0.000	9.336	0.000	0.500
EW02	0.002	3.180	311.530	272.589	395.900	263.933	19.953	39.905	0.000	0.684	0.000	0.500
EW03	0.003	1.980	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.445	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	1.569	10.00	0.157
EE02	100	1.104	10.00	0.110
EE03	100	1.039	10.00	0.104
EE04	100	1.041	10.00	0.104
EE05	100	1.129	10.00	0.113
EE06	100	1.041	10.00	0.104
EE07	100	1.034	10.00	0.103
EE08	100	1.037	10.00	0.104
EE09	100	1.034	10.00	0.103
EE10	100	1.035	10.00	0.103
EW01	100	1.067	10.00	0.107
EW02	100	1.043	10.00	0.104
EW03	100	1.039	10.00	0.104
--	100	0.000	10.00	0.000
--	100	0.000	10.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-284
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Total PCBs

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	1.998	454.920	398.055	593.850	395.900	29.929	59.858	0.000	5.815	0.000	0.750
EE02	0.003	1.998	454.920	398.055	395.900	263.933	19.953	39.905	0.000	24.237	0.000	0.500
EE03	0.000	1.998	57.606	50.406	395.900	263.933	19.953	39.905	0.000	0.582	0.000	0.500
EE04	0.001	2.697	113.246	99.090	395.900	263.933	19.953	39.905	0.000	0.531	0.000	0.500
EE05	0.003	2.697	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.720	0.000	0.500
EE06	0.001	2.697	95.927	83.936	395.900	263.933	19.953	39.905	0.000	0.727	0.000	0.500
EE07	0.000	0.600	81.145	71.002	395.900	263.933	19.953	39.905	0.000	0.168	0.000	0.500
EE08	0.000	1.665	47.224	41.321	395.900	263.933	19.953	39.905	0.000	0.114	0.000	0.500
EE09	0.000	0.767	12.081	10.571	395.900	263.933	19.953	39.905	0.000	0.153	0.000	0.500
EE10	0.001	0.767	203.043	177.663	395.900	263.933	19.953	39.905	0.000	0.265	0.000	0.500
EW01	0.003	3.180	454.920	398.055	395.900	263.933	19.953	39.905	0.000	9.336	0.000	0.500
EW02	0.002	3.180	311.530	272.589	395.900	263.933	19.953	39.905	0.000	0.684	0.000	0.500
EW03	0.003	1.980	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.445	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	1.569	12.50	0.126
EE02	100	1.104	12.50	0.088
EE03	100	1.039	12.50	0.083
EE04	100	1.041	12.50	0.083
EE05	100	1.129	12.50	0.090
EE06	100	1.041	12.50	0.083
EE07	100	1.034	12.50	0.083
EE08	100	1.037	12.50	0.083
EE09	100	1.034	12.50	0.083
EE10	100	1.035	12.50	0.083
EW01	100	1.067	12.50	0.085
EW02	100	1.043	12.50	0.083
EW03	100	1.039	12.50	0.083
--	100	0.000	12.50	0.000
--	100	0.000	12.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-285
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Total PCBs**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.003	3.465	454.920	398.055	791.800	527.867	39.905	79.810	0.000	10.790	0.000	1.000
EE02	0.003	3.465	454.920	398.055	395.900	263.933	19.953	39.905	0.000	26.737	0.000	0.500
EE03	0.000	3.465	79.821	69.844	395.900	263.933	19.953	39.905	0.000	0.813	0.000	0.500
EE04	0.001	3.880	117.151	102.507	395.900	263.933	19.953	39.905	0.000	0.340	0.000	0.500
EE05	0.003	3.880	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.760	0.000	0.500
EE06	0.001	3.880	124.333	108.791	395.900	263.933	19.953	39.905	0.000	0.920	0.000	0.500
EE07	0.001	0.825	130.045	113.789	395.900	263.933	19.953	39.905	0.000	0.261	0.000	0.500
EE08	0.000	1.765	78.733	68.892	395.900	263.933	19.953	39.905	0.000	0.195	0.000	0.500
EE09	0.000	0.965	20.628	18.049	395.900	263.933	19.953	39.905	0.000	0.260	0.000	0.500
EE10	0.002	0.965	271.440	237.510	395.900	263.933	19.953	39.905	0.000	0.345	0.000	0.500
EW01	0.003	3.730	454.920	398.055	395.900	263.933	19.953	39.905	0.000	14.259	0.000	0.500
EW02	0.003	3.730	422.414	369.612	395.900	263.933	19.953	39.905	0.000	0.900	0.000	0.500
EW03	0.003	2.330	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.497	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	2.103	10.00	0.210
EE02	100	1.115	10.00	0.111
EE03	100	1.044	10.00	0.104
EE04	100	1.044	10.00	0.104
EE05	100	1.133	10.00	0.113
EE06	100	1.045	10.00	0.105
EE07	100	1.035	10.00	0.103
EE08	100	1.037	10.00	0.104
EE09	100	1.035	10.00	0.104
EE10	100	1.035	10.00	0.104
EW01	100	1.082	10.00	0.108
EW02	100	1.045	10.00	0.104
EW03	100	1.040	10.00	0.104
--	100	0.000	10.00	0.000
--	100	0.000	10.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-286
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Total PCBs**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	3.465	454.920	398.055	791.800	527.867	39.905	79.810	0.000	10.790	0.000	1.000
EE02	0.003	3.465	454.920	398.055	395.900	263.933	19.953	39.905	0.000	26.737	0.000	0.500
EE03	0.000	3.465	79.821	69.844	395.900	263.933	19.953	39.905	0.000	0.813	0.000	0.500
EE04	0.001	3.880	117.151	102.507	395.900	263.933	19.953	39.905	0.000	0.540	0.000	0.500
EE05	0.003	3.880	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.760	0.000	0.500
EE06	0.001	3.880	124.333	108.791	395.900	263.933	19.953	39.905	0.000	0.920	0.000	0.500
EE07	0.001	0.825	130.045	113.789	395.900	263.933	19.953	39.905	0.000	0.261	0.000	0.500
EE08	0.000	1.765	78.733	68.892	395.900	263.933	19.953	39.905	0.000	0.195	0.000	0.500
EE09	0.000	0.965	20.628	18.049	395.900	263.933	19.953	39.905	0.000	0.260	0.000	0.500
EE10	0.002	0.965	271.440	237.510	395.900	263.933	19.953	39.905	0.000	0.345	0.000	0.500
EW01	0.003	3.730	454.920	398.055	395.900	263.933	19.953	39.905	0.000	14.239	0.000	0.500
EW02	0.003	3.730	422.414	369.612	395.900	263.933	19.953	39.905	0.000	0.900	0.000	0.500
EW03	0.003	2.330	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.497	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	100	2.103	12.50	0.168	
EE02	100	1.115	12.50	0.089	
EE03	100	1.044	12.50	0.084	
EE04	100	1.044	12.50	0.084	
EE05	100	1.133	12.50	0.091	
EE06	100	1.045	12.50	0.084	
EE07	100	1.035	12.50	0.083	
EE08	100	1.037	12.50	0.083	
EE09	100	1.035	12.50	0.083	
EE10	100	1.035	12.50	0.083	
EW01	100	1.082	12.50	0.087	
EW02	100	1.045	12.50	0.084	
EW03	100	1.040	12.50	0.083	
--	100	0.000	12.50	0.000	
--	100	0.000	12.50	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-287
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Muskrat exposed to Total PCBs

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.02	0.37	0.00	0.00	72.58	24.19	1.83	0.00	0.00	1.02	0.00	0.00
EE02	0.02	0.52	0.00	0.00	68.78	22.93	1.73	0.00	0.00	6.02	0.00	0.00
EE03	0.00	0.55	0.00	0.00	73.08	24.36	1.84	0.00	0.00	0.15	0.00	0.00
EE04	0.01	0.75	0.00	0.00	72.95	24.32	1.84	0.00	0.00	0.14	0.00	0.00
EE05	0.02	0.69	0.00	0.00	67.24	22.41	1.69	0.00	0.00	7.94	0.00	0.00
EE06	0.00	0.74	0.00	0.00	72.91	24.30	1.84	0.00	0.00	0.19	0.00	0.00
EE07	0.00	0.17	0.00	0.00	73.45	24.48	1.85	0.00	0.00	0.04	0.00	0.00
EE08	0.00	0.46	0.00	0.00	73.24	24.41	1.85	0.00	0.00	0.03	0.00	0.00
EE09	0.00	0.21	0.00	0.00	73.42	24.47	1.85	0.00	0.00	0.04	0.00	0.00
EE10	0.01	0.21	0.00	0.00	73.39	24.46	1.85	0.00	0.00	0.07	0.00	0.00
EW01	0.02	0.86	0.00	0.00	71.19	23.73	1.79	0.00	0.00	2.40	0.00	0.00
EW02	0.02	0.88	0.00	0.00	72.82	24.27	1.83	0.00	0.00	0.18	0.00	0.00
EW03	0.02	0.55	0.00	0.00	73.10	24.37	1.84	0.00	0.00	0.12	0.00	0.00
Average	0.01	0.54	0.00	0.00	72.16	24.05	1.82	0.00	0.00	1.41	0.00	0.00

**TABLE I-288
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Aldrin**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	0.840	0.735	0.298	0.199	0.062	0.123	0.000	0.046	0.000	0.025
EE02	0.001	0.009	1.387	1.213	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.190	0.167	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.043	0.004	72.324	63.284	0.298	0.199	0.062	0.123	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.572	0.500	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.000	0.003	0.522	0.457	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE08	0.001	0.009	1.368	1.197	0.298	0.199	0.062	0.123	0.000	0.016	0.000	0.025
EE09	0.000	0.009	0.074	0.064	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE10	0.000	0.009	0.272	0.238	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	0.877	0.768	0.298	0.199	0.062	0.123	0.000	0.032	0.000	0.025
EW02	0.000	0.017	0.607	0.531	0.298	0.199	0.062	0.123	0.000	0.006	0.000	0.025
EW03	0.001	0.017	0.963	0.842	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	100	0.001	2.00	0.001	0.001
EE02	100	0.001	2.00	0.001	0.001
EE03	100	0.001	2.00	0.000	0.000
EE04	100	0.001	2.00	0.000	0.000
EE05	100	0.007	2.00	0.003	0.003
EE06	100	0.001	2.00	0.000	0.000
EE07	100	0.001	2.00	0.000	0.000
EE08	100	0.001	2.00	0.000	0.000
EE09	100	0.001	2.00	0.000	0.000
EE10	100	0.001	2.00	0.000	0.000
EW01	100	0.001	2.00	0.001	0.001
EW02	100	0.001	2.00	0.000	0.000
EW03	100	0.001	2.00	0.000	0.000
--	100	0.000	2.00	0.000	0.000
--	100	0.000	2.00	0.000	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-289
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Aldrin

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.000	0.009	0.840	0.735	0.298	0.199	0.062	0.123	0.000	0.046	0.000	0.025
EE02	0.001	0.009	1.387	1.213	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.190	0.167	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.043	0.004	72.324	63.284	0.298	0.199	0.062	0.123	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.572	0.500	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.000	0.003	0.522	0.457	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE08	0.001	0.009	1.368	1.197	0.298	0.199	0.062	0.123	0.000	0.016	0.000	0.025
EE09	0.000	0.009	0.074	0.064	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE10	0.000	0.009	0.272	0.238	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	0.877	0.768	0.298	0.199	0.062	0.123	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.607	0.531	0.298	0.199	0.062	0.123	0.000	0.006	0.000	0.025
EW03	0.001	0.017	0.963	0.842	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.001	4.10	0.000
EE02	100	0.001	4.10	0.000
EE03	100	0.001	4.10	0.000
EE04	100	0.001	4.10	0.000
EE05	100	0.007	4.10	0.002
EE06	100	0.001	4.10	0.000
EE07	100	0.001	4.10	0.000
EE08	100	0.001	4.10	0.000
EE09	100	0.001	4.10	0.000
EE10	100	0.001	4.10	0.000
EW01	100	0.001	4.10	0.000
EW02	100	0.001	4.10	0.000
EW03	100	0.001	4.10	0.000
--	100	0.000	4.10	0.000
--	100	0.000	4.10	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-290
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Aldrin

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.009	1.603	1.403	0.298	0.199	0.062	0.123	0.000	0.087	0.000	0.025
EE02	0.001	0.009	1.453	1.271	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.176	0.154	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.199	0.175	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.045	0.004	75.768	66.297	0.298	0.199	0.062	0.123	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.584	0.511	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.001	0.003	0.962	0.842	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE08	0.001	0.009	2.326	2.035	0.298	0.199	0.062	0.123	0.000	0.028	0.000	0.025
EE09	0.000	0.009	0.133	0.116	0.298	0.199	0.062	0.123	0.000	0.008	0.000	0.025
EE10	0.000	0.009	0.282	0.247	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	1.588	1.390	0.298	0.199	0.062	0.123	0.000	0.086	0.000	0.025
EW02	0.000	0.017	0.846	0.740	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EW03	0.001	0.017	0.977	0.855	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.001	2.00	0.001
EE02	100	0.001	2.00	0.001
EE03	100	0.001	2.00	0.000
EE04	100	0.001	2.00	0.000
EE05	100	0.007	2.00	0.004
EE06	100	0.001	2.00	0.000
EE07	100	0.001	2.00	0.000
EE08	100	0.001	2.00	0.001
EE09	100	0.001	2.00	0.000
EE10	100	0.001	2.00	0.000
EW01	100	0.001	2.00	0.001
EW02	100	0.001	2.00	0.000
EW03	100	0.001	2.00	0.000
--	100	0.000	2.00	0.000
--	100	0.000	2.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-291
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Aldrin

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.009	1.603	1.403	0.298	0.199	0.062	0.123	0.000	0.087	0.000	0.025
EE02	0.001	0.009	1.453	1.271	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.176	0.154	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.199	0.175	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.045	0.004	75.768	66.297	0.298	0.199	0.062	0.123	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.584	0.511	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.001	0.003	0.962	0.842	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE08	0.001	0.009	2.326	2.035	0.298	0.199	0.062	0.123	0.000	0.028	0.000	0.025
EE09	0.000	0.009	0.133	0.116	0.298	0.199	0.062	0.123	0.000	0.008	0.000	0.025
EE10	0.000	0.009	0.282	0.247	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	1.588	1.390	0.298	0.199	0.062	0.123	0.000	0.086	0.000	0.025
EW02	0.000	0.017	0.846	0.740	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EW03	0.001	0.017	0.977	0.855	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.001	4.10	0.000
EE02	100	0.001	4.10	0.000
EE03	100	0.001	4.10	0.000
EE04	100	0.001	4.10	0.000
EE05	100	0.007	4.10	0.002
EE06	100	0.001	4.10	0.000
EE07	100	0.001	4.10	0.000
EE08	100	0.001	4.10	0.000
EE09	100	0.001	4.10	0.000
EE10	100	0.001	4.10	0.000
EW01	100	0.001	4.10	0.000
EW02	100	0.001	4.10	0.000
EW03	100	0.001	4.10	0.000
--	100	0.000	4.10	0.000
--	100	0.000	4.10	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-292
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Muskrat exposed to Aldrin

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	4.33	2.40	0.00	0.00	56.11	18.70	5.80	0.00	0.00	12.40	0.00	0.25
EE02	6.33	2.13	0.00	0.00	49.67	16.56	5.13	0.00	0.00	19.97	0.00	0.22
EE03	0.64	2.82	0.00	0.00	65.86	21.95	6.80	0.00	0.00	1.62	0.00	0.30
EE04	1.17	1.43	0.00	0.00	66.64	22.21	6.88	0.00	0.00	1.37	0.00	0.30
EE05	54.34	0.18	0.00	0.00	8.18	2.73	0.84	0.00	0.00	33.70	0.00	0.04
EE06	3.25	1.33	0.00	0.00	61.90	20.63	6.39	0.00	0.00	6.21	0.00	0.28
EE07	3.13	1.12	0.00	0.00	65.34	21.78	6.75	0.00	0.00	1.59	0.00	0.29
EE08	7.46	2.54	0.00	0.00	59.33	19.78	6.13	0.00	0.00	4.51	0.00	0.27
EE09	0.45	2.83	0.00	0.00	66.14	22.05	6.83	0.00	0.00	1.41	0.00	0.30
EE10	1.65	2.82	0.00	0.00	65.91	21.97	6.81	0.00	0.00	0.54	0.00	0.30
EW01	4.35	4.62	0.00	0.00	53.90	17.97	5.57	0.00	0.00	13.36	0.00	0.24
EW02	3.46	5.31	0.00	0.00	62.00	20.67	6.40	0.00	0.00	1.89	0.00	0.28
EW03	5.41	5.24	0.00	0.00	61.15	20.38	6.32	0.00	0.00	1.23	0.00	0.28
Average	7.38	2.67	0.00	0.00	57.09	19.03	5.90	0.00	0.00	7.68	0.00	0.26

TABLE I-293
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to alpha-Chlordane

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	1.331	1.165	1.759	1.173	0.173	0.347	0.000	0.046	0.000	0.025
EE02	0.000	0.009	2.198	1.923	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.168	0.147	1.759	1.173	0.173	0.347	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.302	0.264	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.070	0.004	567.672	496.713	1.759	1.173	0.173	0.347	0.000	4.096	0.000	0.025
EE06	0.000	0.004	0.182	0.159	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.202	0.177	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.125	0.109	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.034	0.029	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE10	0.000	0.009	0.432	0.378	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	1.391	1.217	1.759	1.173	0.173	0.347	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.962	0.841	1.759	1.173	0.173	0.347	0.000	0.006	0.000	0.025
EW03	0.000	0.017	1.526	1.335	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.005	3.20	0.002
EE02	100	0.005	3.20	0.002
EE03	100	0.005	3.20	0.001
EE04	100	0.005	3.20	0.001
EE05	100	0.022	3.20	0.007
EE06	100	0.005	3.20	0.001
EE07	100	0.005	3.20	0.001
EE08	100	0.005	3.20	0.001
EE09	100	0.005	3.20	0.001
EE10	100	0.005	3.20	0.001
EW01	100	0.005	3.20	0.002
EW02	100	0.005	3.20	0.001
EW03	100	0.005	3.20	0.001
--	100	0.000	3.20	0.000
--	100	0.000	3.20	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-294
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to alpha-Chlordane**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	1.331	1.165	1.759	1.173	0.173	0.347	0.000	0.046	0.000	0.025
EE02	0.000	0.009	2.198	1.923	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.168	0.147	1.759	1.173	0.173	0.347	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.302	0.264	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.070	0.004	567.672	496.713	1.759	1.173	0.173	0.347	0.000	4.096	0.000	0.025
EE06	0.000	0.004	0.182	0.159	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.202	0.177	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.125	0.109	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.034	0.029	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE10	0.000	0.009	0.432	0.378	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	1.391	1.217	1.759	1.173	0.173	0.347	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.962	0.841	1.759	1.173	0.173	0.347	0.000	0.006	0.000	0.025
EW03	0.000	0.017	1.526	1.335	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.005	3.90	0.001
EE02	100	0.005	3.90	0.001
EE03	100	0.005	3.90	0.001
EE04	100	0.005	3.90	0.001
EE05	100	0.022	3.90	0.006
EE06	100	0.005	3.90	0.001
EE07	100	0.005	3.90	0.001
EE08	100	0.005	3.90	0.001
EE09	100	0.005	3.90	0.001
EE10	100	0.005	3.90	0.001
EW01	100	0.005	3.90	0.001
EW02	100	0.005	3.90	0.001
EW03	100	0.005	3.90	0.001
--	100	0.000	3.90	0.000
--	100	0.000	3.90	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-295
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to alpha-Chlordane**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	2.541	2.223	1.759	1.173	0.173	0.347	0.000	0.087	0.000	0.025
EE02	0.000	0.009	2.302	2.015	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.280	0.245	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.316	0.277	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.096	0.004	776.691	679.604	1.759	1.173	0.173	0.347	0.000	7.332	0.000	0.025
EE06	0.000	0.004	0.187	0.164	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.282	0.246	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.136	0.119	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.045	0.039	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE10	0.000	0.009	0.447	0.391	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	2.517	2.203	1.759	1.173	0.173	0.347	0.000	0.086	0.000	0.025
EW02	0.000	0.017	1.340	1.173	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EW03	0.000	0.017	1.549	1.355	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.005	3.20	0.002
EE02	100	0.005	3.20	0.002
EE03	100	0.005	3.20	0.001
EE04	100	0.005	3.20	0.001
EE05	100	0.033	3.20	0.010
EE06	100	0.005	3.20	0.001
EE07	100	0.005	3.20	0.001
EE08	100	0.005	3.20	0.001
EE09	100	0.005	3.20	0.001
EE10	100	0.005	3.20	0.001
EW01	100	0.005	3.20	0.002
EW02	100	0.005	3.20	0.001
EW03	100	0.005	3.20	0.001
--	100	0.000	3.20	0.000
--	100	0.000	3.20	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-296
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to alpha-Chlordane**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	2.541	2.223	1.759	1.173	0.173	0.347	0.000	0.087	0.000	0.025
EE02	0.000	0.009	2.302	2.015	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.280	0.245	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.316	0.277	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.096	0.004	776.691	679.604	1.759	1.173	0.173	0.347	0.000	7.332	0.000	0.025
EE06	0.000	0.004	0.187	0.164	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.282	0.246	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.136	0.119	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.045	0.039	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE10	0.000	0.009	0.447	0.391	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	2.517	2.203	1.759	1.173	0.173	0.347	0.000	0.086	0.000	0.025
EW02	0.000	0.017	1.340	1.173	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EW03	0.000	0.017	1.549	1.355	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	100	0.005	3.90	0.001	
EE02	100	0.005	3.90	0.001	
EE03	100	0.005	3.90	0.001	
EE04	100	0.005	3.90	0.001	
EE05	100	0.033	3.90	0.009	
EE06	100	0.005	3.90	0.001	
EE07	100	0.005	3.90	0.001	
EE08	100	0.005	3.90	0.001	
EE09	100	0.005	3.90	0.001	
EE10	100	0.005	3.90	0.001	
EW01	100	0.005	3.90	0.001	
EW02	100	0.005	3.90	0.001	
EW03	100	0.005	3.90	0.001	
--	100	0.000	3.90	0.000	
--	100	0.000	3.90	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-297
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to alpha-Chlordane

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.30	0.51	0.00	0.00	69.81	23.27	3.44	0.00	0.00	2.61	0.00	0.05
EE02	0.49	0.49	0.00	0.00	68.22	22.74	3.36	0.00	0.00	4.64	0.00	0.05
EE03	0.04	0.52	0.00	0.00	71.67	23.89	3.53	0.00	0.00	0.30	0.00	0.05
BE04	0.07	0.26	0.00	0.00	71.87	23.96	3.54	0.00	0.00	0.25	0.00	0.05
EE05	28.16	0.06	0.00	0.00	15.24	5.08	0.75	0.00	0.00	50.70	0.00	0.01
EE06	0.04	0.26	0.00	0.00	71.89	23.96	3.54	0.00	0.00	0.25	0.00	0.05
EE07	0.05	0.21	0.00	0.00	72.05	24.02	3.55	0.00	0.00	0.08	0.00	0.05
EE08	0.03	0.52	0.00	0.00	71.85	23.95	3.54	0.00	0.00	0.05	0.00	0.05
EE09	0.01	0.52	0.00	0.00	71.85	23.95	3.54	0.00	0.00	0.07	0.00	0.05
EE10	0.10	0.52	0.00	0.00	71.77	23.92	3.54	0.00	0.00	0.10	0.00	0.05
EW01	0.31	1.00	0.00	0.00	69.24	23.08	3.41	0.00	0.00	2.90	0.00	0.05
EW02	0.22	1.03	0.00	0.00	71.12	23.71	3.50	0.00	0.00	0.37	0.00	0.05
EW03	0.35	1.03	0.00	0.00	71.11	23.70	3.50	0.00	0.00	0.24	0.00	0.05
Average	2.32	0.53	0.00	0.00	66.74	22.25	3.29	0.00	0.00	4.81	0.00	0.05

**TABLE I-298
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Dieldrin**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.019	0.017	0.164	0.144	0.001	0.001	0.001	0.002	0.000	0.088	0.000	0.050
EE02	0.033	0.017	0.280	0.245	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE03	0.002	0.017	0.021	0.018	0.001	0.001	0.001	0.002	0.000	0.010	0.000	0.050
EE04	0.004	0.008	0.038	0.033	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	16.280	0.000	0.061
EE06	0.003	0.008	0.023	0.020	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.003	0.007	0.025	0.022	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE08	0.021	0.017	0.175	0.153	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE09	0.000	0.017	0.004	0.004	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE10	0.006	0.017	0.054	0.047	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.020	0.033	0.173	0.151	0.001	0.001	0.001	0.002	0.000	0.100	0.000	0.050
EW02	0.014	0.033	0.120	0.105	0.001	0.001	0.001	0.002	0.000	0.012	0.000	0.061
EW03	0.023	0.033	0.195	0.171	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.002	0.25	0.008
EE02	100	0.003	0.25	0.014
EE03	100	0.000	0.25	0.001
EE04	100	0.000	0.25	0.002
EE05	100	0.109	0.25	0.438
EE06	100	0.000	0.25	0.001
EE07	100	0.000	0.25	0.001
EE08	100	0.002	0.25	0.008
EE09	100	0.000	0.25	0.000
EE10	100	0.001	0.25	0.003
EW01	100	0.002	0.25	0.009
EW02	100	0.001	0.25	0.006
EW03	100	0.002	0.25	0.009
--	100	0.000	0.25	0.000
--	100	0.000	0.25	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-299
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Dieldrin**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.019	0.017	0.164	0.144	0.001	0.001	0.001	0.002	0.000	0.088	0.000	0.050
EE02	0.033	0.017	0.280	0.245	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE03	0.002	0.017	0.021	0.018	0.001	0.001	0.001	0.002	0.000	0.010	0.000	0.050
EE04	0.004	0.008	0.038	0.033	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	16.280	0.000	0.061
EE06	0.003	0.008	0.023	0.020	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.003	0.007	0.025	0.022	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE08	0.021	0.017	0.175	0.153	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE09	0.000	0.017	0.004	0.004	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE10	0.006	0.017	0.054	0.047	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.020	0.033	0.173	0.151	0.001	0.001	0.001	0.002	0.000	0.100	0.000	0.050
EW02	0.014	0.033	0.120	0.105	0.001	0.001	0.001	0.002	0.000	0.012	0.000	0.061
EW03	0.023	0.033	0.195	0.171	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.002	0.25	0.008
EE02	100	0.003	0.25	0.014
EE03	100	0.000	0.25	0.001
EE04	100	0.000	0.25	0.002
EE05	100	0.109	0.25	0.438
EE06	100	0.000	0.25	0.001
EE07	100	0.000	0.25	0.001
EE08	100	0.002	0.25	0.008
EE09	100	0.000	0.25	0.000
EE10	100	0.001	0.25	0.003
EW01	100	0.002	0.25	0.009
EW02	100	0.001	0.25	0.006
EW03	100	0.002	0.25	0.009
--	100	0.000	0.25	0.000
--	100	0.000	0.25	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-300
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Dieldrin

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.037	0.017	0.313	0.273	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE02	0.035	0.017	0.297	0.260	0.001	0.001	0.001	0.002	0.000	0.167	0.000	0.050
EE03	0.004	0.017	0.035	0.031	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE04	0.005	0.008	0.039	0.034	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	17.940	0.000	0.072
EE06	0.003	0.008	0.024	0.021	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.004	0.007	0.036	0.031	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE08	0.039	0.017	0.336	0.294	0.001	0.001	0.001	0.002	0.000	0.033	0.000	0.050
EE09	0.001	0.017	0.006	0.005	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE10	0.007	0.017	0.056	0.049	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.037	0.033	0.313	0.274	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EW02	0.019	0.033	0.166	0.145	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.072
EW03	0.024	0.033	0.200	0.175	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.004	0.25	0.015
EE02	100	0.004	0.25	0.015
EE03	100	0.000	0.25	0.002
EE04	100	0.000	0.25	0.002
EE05	100	0.114	0.25	0.456
EE06	100	0.000	0.25	0.001
EE07	100	0.000	0.25	0.002
EE08	100	0.004	0.25	0.015
EE09	100	0.000	0.25	0.000
EE10	100	0.001	0.25	0.003
EW01	100	0.004	0.25	0.015
EW02	100	0.002	0.25	0.008
EW03	100	0.002	0.25	0.009
--	100	0.000	0.25	0.000
--	100	0.000	0.25	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-301
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Dieldrin**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.037	0.017	0.313	0.273	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE02	0.035	0.017	0.297	0.260	0.001	0.001	0.001	0.002	0.000	0.167	0.000	0.050
EE03	0.004	0.017	0.035	0.031	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE04	0.005	0.008	0.039	0.034	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	17.940	0.000	0.072
EE06	0.003	0.008	0.024	0.021	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.004	0.007	0.036	0.031	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE08	0.039	0.017	0.336	0.294	0.001	0.001	0.001	0.002	0.000	0.033	0.000	0.050
EE09	0.001	0.017	0.006	0.005	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE10	0.007	0.017	0.056	0.049	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.037	0.033	0.313	0.274	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EW02	0.019	0.033	0.166	0.145	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.072
EW03	0.024	0.033	0.200	0.175	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	100	0.004	0.25	0.015	
EE02	100	0.004	0.25	0.015	
EE03	100	0.000	0.25	0.002	
EE04	100	0.000	0.25	0.002	
EE05	100	0.114	0.25	0.456	
EE06	100	0.000	0.25	0.001	
EE07	100	0.000	0.25	0.002	
EE08	100	0.004	0.25	0.015	
EE09	100	0.000	0.25	0.000	
EE10	100	0.001	0.25	0.003	
EW01	100	0.004	0.25	0.015	
EW02	100	0.002	0.25	0.008	
EW03	100	0.002	0.25	0.009	
--	100	0.000	0.25	0.000	
--	100	0.000	0.25	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-302
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to Dieldrin

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	85.24	2.35	0.00	0.00	0.12	0.04	0.04	0.00	0.00	11.95	0.00	0.25
EE02	85.21	1.38	0.00	0.00	0.07	0.02	0.02	0.00	0.00	13.15	0.00	0.15
EE03	72.46	15.54	0.00	0.00	0.80	0.27	0.26	0.00	0.00	8.99	0.00	1.68
EE04	87.86	5.07	0.00	0.00	0.54	0.18	0.18	0.00	0.00	5.04	0.00	1.13
EE05	59.23	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.74	0.00	0.01
EE06	81.58	7.72	0.00	0.00	0.82	0.27	0.27	0.00	0.00	7.62	0.00	1.72
EE07	88.44	6.22	0.00	0.00	0.82	0.27	0.27	0.00	0.00	2.28	0.00	1.71
EE08	94.62	2.45	0.00	0.00	0.13	0.04	0.04	0.00	0.00	2.46	0.00	0.26
EE09	40.89	44.21	0.00	0.00	2.28	0.76	0.74	0.00	0.00	6.33	0.00	4.78
EE10	89.55	7.54	0.00	0.00	0.39	0.13	0.13	0.00	0.00	1.44	0.00	0.82
EW01	82.79	4.33	0.00	0.00	0.11	0.04	0.04	0.00	0.00	12.45	0.00	0.23
EW02	90.07	6.78	0.00	0.00	0.17	0.06	0.06	0.00	0.00	2.42	0.00	0.45
EW03	94.16	4.37	0.00	0.00	0.11	0.04	0.04	0.00	0.00	1.05	0.00	0.24
Average	80.93	8.31	0.00	0.00	0.49	0.16	0.16	0.00	0.00	8.92	0.00	1.03

TABLE I-303
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Heptachlor

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.001	0.078	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.078	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.078	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.078	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.078	91.253	79.847	0.066	0.044	0.020	0.041	0.000	2.964	0.000	0.025
EE06	0.001	0.078	0.352	0.308	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE07	0.001	0.013	0.403	0.352	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EE08	0.003	0.042	1.097	0.960	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE09	0.000	0.042	0.025	0.022	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.007	0.042	2.510	2.196	0.066	0.044	0.020	0.041	0.000	0.026	0.000	0.025
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	100	0.001	3.10	0.000	0.000
EE02	100	0.001	3.10	0.000	0.000
EE03	100	0.000	3.10	0.000	0.000
EE04	100	0.000	3.10	0.000	0.000
EE05	100	0.030	3.10	0.010	0.010
EE06	100	0.001	3.10	0.000	0.000
EE07	100	0.000	3.10	0.000	0.000
EE08	100	0.001	3.10	0.000	0.000
EE09	100	0.000	3.10	0.000	0.000
EE10	100	0.001	3.10	0.000	0.000
EW01	100	0.001	3.10	0.000	0.000
EW02	100	0.000	3.10	0.000	0.000
EW03	100	0.000	3.10	0.000	0.000
--	100	0.000	3.10	0.000	0.000
--	100	0.000	3.10	0.000	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-304
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Heptachlor**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.078	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.078	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.078	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.078	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.078	91.253	79.847	0.066	0.044	0.020	0.041	0.000	2.964	0.000	0.025
EE06	0.001	0.078	0.352	0.308	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE07	0.001	0.013	0.403	0.352	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EE08	0.003	0.042	1.097	0.960	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE09	0.000	0.042	0.025	0.022	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.007	0.042	2.510	2.196	0.066	0.044	0.020	0.041	0.000	0.026	0.000	0.025
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.001	31.00	0.000
EE02	100	0.001	31.00	0.000
EE03	100	0.000	31.00	0.000
EE04	100	0.000	31.00	0.000
EE05	100	0.030	31.00	0.001
EE06	100	0.001	31.00	0.000
EE07	100	0.000	31.00	0.000
EE08	100	0.001	31.00	0.000
EE09	100	0.000	31.00	0.000
EE10	100	0.001	31.00	0.000
EW01	100	0.001	31.00	0.000
EW02	100	0.000	31.00	0.000
EW03	100	0.000	31.00	0.000
--	100	0.000	31.00	0.000
--	100	0.000	31.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-305
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Heptachlor**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	0.081	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.081	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.081	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.081	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.081	91.253	79.847	0.066	0.044	0.020	0.041	0.000	3.354	0.000	0.025
EE06	0.002	0.081	0.637	0.557	0.066	0.044	0.020	0.041	0.000	0.037	0.000	0.025
EE07	0.002	0.016	0.758	0.664	0.066	0.044	0.020	0.041	0.000	0.012	0.000	0.025
EE08	0.006	0.042	2.143	1.875	0.066	0.044	0.020	0.041	0.000	0.042	0.000	0.025
EE09	0.000	0.042	0.033	0.029	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.009	0.042	3.552	3.108	0.066	0.044	0.020	0.041	0.000	0.036	0.000	0.025
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
LOCATION	BASED ON UCL (or max) CONCENTRATIONS		TRV (NOAEL)	HAZARD QUOTIENT
	Area Use Factor	Applied Daily Dose		
EE01	100	0.001	3.10	0.000
EE02	100	0.001	3.10	0.000
EE03	100	0.000	3.10	0.000
EE04	100	0.000	3.10	0.000
EE05	100	0.031	3.10	0.010
EE06	100	0.001	3.10	0.000
EE07	100	0.000	3.10	0.000
EE08	100	0.001	3.10	0.000
EE09	100	0.000	3.10	0.000
EE10	100	0.001	3.10	0.000
EW01	100	0.001	3.10	0.000
EW02	100	0.000	3.10	0.000
EW03	100	0.000	3.10	0.000
--	100	0.000	3.10	0.000
--	100	0.000	3.10	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-306
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Heptachlor**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	0.081	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.081	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.081	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.081	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.081	91.253	79.847	0.066	0.044	0.020	0.041	0.000	3.554	0.000	0.025
EE06	0.002	0.081	0.637	0.557	0.066	0.044	0.020	0.041	0.000	0.037	0.000	0.025
EE07	0.002	0.016	0.758	0.664	0.066	0.044	0.020	0.041	0.000	0.012	0.000	0.025
EE08	0.006	0.042	2.143	1.875	0.066	0.044	0.020	0.041	0.000	0.042	0.000	0.025
EE09	0.000	0.042	0.033	0.029	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.009	0.042	3.552	3.108	0.066	0.044	0.020	0.041	0.000	0.036	0.000	0.025
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	100	0.001	31.00	0.000	0.000
EE02	100	0.001	31.00	0.000	0.000
EE03	100	0.000	31.00	0.000	0.000
EE04	100	0.000	31.00	0.000	0.000
EE05	100	0.031	31.00	0.001	0.001
EE06	100	0.001	31.00	0.000	0.000
EE07	100	0.000	31.00	0.000	0.000
EE08	100	0.001	31.00	0.000	0.000
EE09	100	0.000	31.00	0.000	0.000
EE10	100	0.001	31.00	0.000	0.000
EW01	100	0.001	31.00	0.000	0.000
EW02	100	0.000	31.00	0.000	0.000
EW03	100	0.000	31.00	0.000	0.000
--	100	0.000	31.00	0.000	0.000
--	100	0.000	31.00	0.000	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-307
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to Heptachlor

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	17.84	34.08	0.00	0.00	19.16	6.39	2.97	0.00	0.00	19.17	0.00	0.39
EE02	23.14	26.77	0.00	0.00	15.05	5.02	2.33	0.00	0.00	27.39	0.00	0.31
EE03	3.34	50.59	0.00	0.00	28.44	9.48	4.40	0.00	0.00	3.17	0.00	0.58
EE04	5.88	49.53	0.00	0.00	27.84	9.28	4.31	0.00	0.00	2.59	0.00	0.57
EE05	71.28	0.76	0.00	0.00	0.42	0.14	0.07	0.00	0.00	27.32	0.00	0.01
EE06	14.77	40.55	0.00	0.00	22.79	7.60	3.53	0.00	0.00	10.31	0.00	0.46
EE07	27.50	11.28	0.00	0.00	37.12	12.37	5.75	0.00	0.00	5.22	0.00	0.76
EE08	40.87	19.15	0.00	0.00	20.24	6.75	3.13	0.00	0.00	9.45	0.00	0.41
EE09	1.81	37.03	0.00	0.00	39.12	13.04	6.06	0.00	0.00	2.15	0.00	0.80
EE10	60.48	12.39	0.00	0.00	13.09	4.36	2.03	0.00	0.00	7.37	0.00	0.27
EW01	24.38	9.71	0.00	0.00	25.05	8.35	3.88	0.00	0.00	28.11	0.00	0.51
EW02	24.85	14.32	0.00	0.00	36.94	12.31	5.72	0.00	0.00	5.10	0.00	0.75
EW03	34.95	12.69	0.00	0.00	32.74	10.91	5.07	0.00	0.00	2.98	0.00	0.67
Average	27.01	24.53	0.00	0.00	24.46	8.15	3.79	0.00	0.00	11.56	0.00	0.50

**TABLE I-308
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Heptachlor epoxide**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.009	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.009	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.113	0.004	43.580	38.132	0.066	0.044	0.020	0.041	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.069	0.061	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.077	0.067	0.066	0.044	0.020	0.041	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.047	0.041	0.217	0.145	0.067	0.134	0.000	0.001	0.000	0.083
EE09	0.000	0.009	0.013	0.011	0.162	0.108	0.050	0.100	0.000	0.001	0.000	0.062
EE10	0.000	0.009	0.164	0.144	0.112	0.075	0.035	0.069	0.000	0.002	0.000	0.043
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.000	0.25	0.002
EE02	100	0.001	0.25	0.003
EE03	100	0.000	0.25	0.001
EE04	100	0.000	0.25	0.001
EE05	100	0.013	0.25	0.051
EE06	100	0.000	0.25	0.001
EE07	100	0.000	0.25	0.001
EE08	100	0.001	0.25	0.003
EE09	100	0.000	0.25	0.002
EE10	100	0.000	0.25	0.002
EW01	100	0.001	0.25	0.002
EW02	100	0.000	0.25	0.001
EW03	100	0.000	0.25	0.002
--	100	0.000	0.25	0.000
--	100	0.000	0.25	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-309
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Heptachlor epoxide**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.009	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.009	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.113	0.004	43.580	38.132	0.066	0.044	0.020	0.041	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.069	0.061	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.077	0.067	0.066	0.044	0.020	0.041	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.047	0.041	0.217	0.145	0.067	0.134	0.000	0.001	0.000	0.083
EE09	0.000	0.009	0.013	0.011	0.162	0.108	0.050	0.100	0.000	0.001	0.000	0.062
EE10	0.000	0.009	0.164	0.144	0.112	0.075	0.035	0.069	0.000	0.002	0.000	0.043
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.000	0.50	0.001
EE02	100	0.001	0.50	0.001
EE03	100	0.000	0.50	0.000
EE04	100	0.000	0.50	0.000
EE05	100	0.013	0.50	0.025
EE06	100	0.000	0.50	0.000
EE07	100	0.000	0.50	0.000
EE08	100	0.001	0.50	0.001
EE09	100	0.000	0.50	0.001
EE10	100	0.000	0.50	0.001
EW01	100	0.001	0.50	0.001
EW02	100	0.000	0.50	0.001
EW03	100	0.000	0.50	0.001
--	100	0.000	0.50	0.000
--	100	0.000	0.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

TABLE I-310
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Heptachlor epoxide

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	0.009	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.009	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.119	0.004	45.655	39.948	0.066	0.044	0.020	0.041	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.071	0.062	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.107	0.094	0.066	0.044	0.020	0.041	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.052	0.045	0.368	0.246	0.114	0.228	0.000	0.001	0.000	0.140
EE09	0.000	0.009	0.017	0.015	0.258	0.172	0.080	0.160	0.000	0.002	0.000	0.098
EE10	0.000	0.009	0.170	0.149	0.158	0.105	0.049	0.098	0.000	0.002	0.000	0.060
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.001	0.25	0.003
EE02	100	0.001	0.25	0.003
EE03	100	0.000	0.25	0.001
EE04	100	0.000	0.25	0.001
EE05	100	0.013	0.25	0.053
EE06	100	0.000	0.25	0.001
EE07	100	0.000	0.25	0.001
EE08	100	0.001	0.25	0.004
EE09	100	0.001	0.25	0.003
EE10	100	0.001	0.25	0.002
EW01	100	0.001	0.25	0.003
EW02	100	0.000	0.25	0.002
EW03	100	0.000	0.25	0.002
--	100	0.000	0.25	0.000
--	100	0.000	0.25	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-311
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Heptachlor epoxide**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EEO1	0.003	0.009	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EEO2	0.002	0.009	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EEO3	0.000	0.009	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EEO4	0.000	0.004	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EEO5	0.119	0.004	45.655	39.948	0.066	0.044	0.020	0.041	0.000	0.860	0.000	0.025
EEO6	0.000	0.004	0.071	0.062	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EEO7	0.000	0.003	0.107	0.094	0.066	0.044	0.020	0.041	0.000	0.002	0.000	0.025
EEO8	0.000	0.009	0.052	0.045	0.368	0.246	0.114	0.228	0.000	0.001	0.000	0.140
EEO9	0.000	0.009	0.017	0.015	0.258	0.172	0.080	0.160	0.000	0.002	0.000	0.098
EEO10	0.000	0.009	0.170	0.149	0.158	0.105	0.049	0.098	0.000	0.002	0.000	0.060
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EEO1	100	0.001	0.50	0.001
EEO2	100	0.001	0.50	0.001
EEO3	100	0.000	0.50	0.001
EEO4	100	0.000	0.50	0.000
EEO5	100	0.013	0.50	0.026
EEO6	100	0.000	0.50	0.000
EEO7	100	0.000	0.50	0.000
EEO8	100	0.001	0.50	0.002
EEO9	100	0.001	0.50	0.002
EEO10	100	0.001	0.50	0.001
EW01	100	0.001	0.50	0.001
EW02	100	0.000	0.50	0.001
EW03	100	0.000	0.50	0.001
--	100	0.000	0.50	0.000
--	100	0.000	0.50	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (ug/day)	0.070
Sediment Ingestion Rate (ug/day)	0.002
Soil Ingestion Rate (ug/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-312
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to Heptachlor epoxide

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	25.62	5.33	0.00	0.00	27.51	9.17	4.26	0.00	0.00	27.54	0.00	0.56
EE02	30.39	3.83	0.00	0.00	19.76	6.59	3.06	0.00	0.00	35.97	0.00	0.40
EE03	6.08	10.04	0.00	0.00	51.77	17.26	8.02	0.00	0.00	5.78	0.00	1.05
EE04	11.06	5.08	0.00	0.00	52.37	17.46	8.11	0.00	0.00	4.86	0.00	1.07
EE05	79.83	0.10	0.00	0.00	1.00	0.33	0.15	0.00	0.00	18.57	0.00	0.02
EE06	6.99	5.31	0.00	0.00	54.81	18.27	8.49	0.00	0.00	5.01	0.00	1.12
EE07	8.07	4.42	0.00	0.00	56.96	18.99	8.82	0.00	0.00	1.59	0.00	1.16
EE08	1.65	3.67	0.00	0.00	62.52	20.84	9.68	0.00	0.00	0.35	0.00	1.27
EE09	0.59	4.90	0.00	0.00	62.18	20.73	9.63	0.00	0.00	0.70	0.00	1.27
EE10	9.75	6.26	0.00	0.00	54.88	18.29	8.50	0.00	0.00	1.21	0.00	1.12
EW01	24.38	9.71	0.00	0.00	25.05	8.35	3.88	0.00	0.00	28.11	0.00	0.51
EW02	24.85	14.32	0.00	0.00	36.94	12.31	5.72	0.00	0.00	5.10	0.00	0.75
EW03	34.95	12.69	0.00	0.00	32.74	10.91	5.07	0.00	0.00	2.98	0.00	0.67
Average	20.32	6.59	0.00	0.00	41.42	13.81	6.41	0.00	0.00	10.60	0.00	0.84

**TABLE I-313
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Endosulfan Sulfate**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.009	0.017	0.385	0.337	0.010	0.006	0.006	0.011	0.000	0.088	0.000	0.050
EE02	0.016	0.017	0.657	0.575	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE03	0.001	0.017	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.011	0.000	0.050
EE04	0.002	0.008	0.089	0.078	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.002	0.008	42.465	37.157	0.010	0.006	0.006	0.011	0.000	2.126	0.000	0.050
EE06	0.001	0.008	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.001	0.007	0.059	0.052	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE08	0.001	0.017	0.037	0.032	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.010	0.009	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE10	0.003	0.017	0.126	0.110	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.010	0.033	0.406	0.355	0.010	0.006	0.006	0.011	0.000	0.100	0.000	0.050
EW02	0.007	0.033	0.282	0.247	0.010	0.006	0.006	0.011	0.000	0.012	0.000	0.050
EW03	0.011	0.033	0.457	0.400	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.001	2.40	0.000
EE02	100	0.002	2.40	0.001
EE03	100	0.000	2.40	0.000
EE04	100	0.000	2.40	0.000
EE05	100	0.095	2.40	0.040
EE06	100	0.000	2.40	0.000
EE07	100	0.000	2.40	0.000
EE08	100	0.000	2.40	0.000
EE09	100	0.000	2.40	0.000
EE10	100	0.000	2.40	0.000
EW01	100	0.001	2.40	0.001
EW02	100	0.001	2.40	0.000
EW03	100	0.001	2.40	0.000
--	100	0.000	2.40	0.000
--	100	0.000	2.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-314
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Endosulfan Sulfate**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.009	0.017	0.385	0.337	0.010	0.006	0.006	0.011	0.000	0.088	0.000	0.050
EE02	0.016	0.017	0.657	0.575	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE03	0.001	0.017	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.011	0.000	0.050
EE04	0.002	0.008	0.089	0.078	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.002	0.008	42.465	37.157	0.010	0.006	0.006	0.011	0.000	2.126	0.000	0.050
EE06	0.001	0.008	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.001	0.007	0.059	0.052	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE08	0.001	0.017	0.037	0.032	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.010	0.009	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE10	0.003	0.017	0.126	0.110	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.010	0.033	0.406	0.355	0.010	0.006	0.006	0.011	0.000	0.100	0.000	0.050
EW02	0.007	0.033	0.282	0.247	0.010	0.006	0.006	0.011	0.000	0.012	0.000	0.050
EW03	0.011	0.033	0.457	0.400	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.001	5.00	0.000
EE02	100	0.002	5.00	0.000
EE03	100	0.000	5.00	0.000
EE04	100	0.000	5.00	0.000
EE05	100	0.095	5.00	0.019
EE06	100	0.000	5.00	0.000
EE07	100	0.000	5.00	0.000
EE08	100	0.000	5.00	0.000
EE09	100	0.000	5.00	0.000
EE10	100	0.000	5.00	0.000
EW01	100	0.001	5.00	0.000
EW02	100	0.001	5.00	0.000
EW03	100	0.001	5.00	0.000
--	100	0.000	5.00	0.000
--	100	0.000	5.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-315
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Endosulfan Sulfate

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ng/L)
EE01	0.017	0.017	0.733	0.641	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE02	0.016	0.017	0.697	0.610	0.010	0.006	0.006	0.011	0.000	0.167	0.000	0.050
EE03	0.002	0.017	0.083	0.072	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EE04	0.002	0.008	0.091	0.080	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.168	0.008	49.486	43.300	0.010	0.006	0.006	0.011	0.000	2.614	0.000	0.050
EE06	0.001	0.008	0.057	0.050	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.002	0.007	0.083	0.073	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE08	0.001	0.017	0.039	0.034	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.013	0.012	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE10	0.003	0.017	0.131	0.114	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.017	0.033	0.734	0.642	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EW02	0.009	0.033	0.388	0.340	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EW03	0.011	0.033	0.469	0.410	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.002	2.40	0.001
EE02	100	0.002	2.40	0.001
EE03	100	0.000	2.40	0.000
EE04	100	0.000	2.40	0.000
EE05	100	0.111	2.40	0.046
EE06	100	0.000	2.40	0.000
EE07	100	0.000	2.40	0.000
EE08	100	0.000	2.40	0.000
EE09	100	0.000	2.40	0.000
EE10	100	0.000	2.40	0.000
EW01	100	0.002	2.40	0.001
EW02	100	0.001	2.40	0.000
EW03	100	0.001	2.40	0.000
--	100	0.000	2.40	0.000
--	100	0.000	2.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-316
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Endosulfan Sulfate

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.017	0.017	0.733	0.641	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE02	0.016	0.017	0.697	0.610	0.010	0.006	0.006	0.011	0.000	0.167	0.000	0.050
EE03	0.002	0.017	0.083	0.072	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EE04	0.002	0.008	0.091	0.080	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.168	0.008	49.486	43.300	0.010	0.006	0.006	0.011	0.000	2.614	0.000	0.050
EE06	0.001	0.008	0.057	0.050	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.002	0.007	0.083	0.073	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE08	0.001	0.017	0.039	0.034	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.013	0.012	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE10	0.003	0.017	0.131	0.114	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.017	0.033	0.734	0.642	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EW02	0.009	0.033	0.388	0.340	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EW03	0.011	0.033	0.469	0.410	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.002	5.00	0.000
EE02	100	0.002	5.00	0.000
EE03	100	0.000	5.00	0.000
EE04	100	0.000	5.00	0.000
EE05	100	0.111	5.00	0.022
EE06	100	0.000	5.00	0.000
EE07	100	0.000	5.00	0.000
EE08	100	0.000	5.00	0.000
EE09	100	0.000	5.00	0.000
EE10	100	0.000	5.00	0.000
EW01	100	0.002	5.00	0.000
EW02	100	0.001	5.00	0.000
EW03	100	0.001	5.00	0.000
--	100	0.000	5.00	0.000
--	100	0.000	5.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-317
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Muskrat exposed to Endosulfan Sulfate

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	71.43	4.19	0.00	0.00	1.63	0.54	0.48	0.00	0.00	21.28	0.00	0.45
EE02	72.07	2.47	0.00	0.00	0.96	0.32	0.28	0.00	0.00	23.62	0.00	0.27
EE03	50.40	20.86	0.00	0.00	8.14	2.71	2.37	0.00	0.00	13.25	0.00	2.26
EE04	69.82	8.56	0.00	0.00	6.89	2.30	2.01	0.00	0.00	8.51	0.00	1.91
EE05	93.82	0.02	0.00	0.00	0.02	0.01	0.01	0.00	0.00	6.12	0.00	0.01
EE06	58.59	11.77	0.00	0.00	9.47	3.16	2.76	0.00	0.00	11.62	0.00	2.63
EE07	67.33	10.06	0.00	0.00	9.96	3.32	2.90	0.00	0.00	3.68	0.00	2.76
EE08	46.83	28.93	0.00	0.00	11.29	3.76	3.29	0.00	0.00	2.77	0.00	3.13
EE09	18.77	43.09	0.00	0.00	16.81	5.60	4.90	0.00	0.00	6.17	0.00	4.66
EE10	74.30	13.29	0.00	0.00	5.19	1.73	1.51	0.00	0.00	2.54	0.00	1.44
EW01	67.94	7.55	0.00	0.00	1.47	0.49	0.43	0.00	0.00	21.71	0.00	0.41
EW02	78.37	12.52	0.00	0.00	2.44	0.81	0.71	0.00	0.00	4.46	0.00	0.68
EW03	86.29	8.52	0.00	0.00	1.66	0.55	0.48	0.00	0.00	2.03	0.00	0.46
Average	65.84	13.22	0.00	0.00	5.84	1.95	1.70	0.00	0.00	9.83	0.00	1.62

**TABLE I-318
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Benzidine**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	1.349	1.250	8.963	8.963	0.175	0.175	0.175	0.175	0.000	3.888	0.000	25.000
EE02	2.168	1.250	14.408	14.408	0.175	0.175	0.175	0.175	0.000	6.404	0.000	25.000
EE03	1.533	1.250	10.188	10.188	0.175	0.175	0.175	0.175	0.000	3.767	0.000	25.000
EE04	1.080	5.000	7.174	7.174	0.175	0.175	0.175	0.175	0.000	1.243	0.000	25.000
EE05	15.128	5.000	100.527	100.527	0.175	0.175	0.175	0.175	0.000	9.355	0.000	25.000
EE06	2.020	5.000	13.423	13.423	0.175	0.175	0.175	0.175	0.000	3.703	0.000	25.000
EE07	2.349	5.000	15.607	15.607	0.175	0.175	0.175	0.175	0.000	1.244	0.000	25.000
EE08	4.473	5.000	29.725	29.725	0.175	0.175	0.175	0.175	0.000	2.495	0.000	25.000
EE09	0.406	5.000	2.700	2.700	0.175	0.175	0.175	0.175	0.000	1.263	0.000	25.000
EE10	3.878	5.000	25.771	25.771	0.175	0.175	0.175	0.175	0.000	1.254	0.000	25.000
EW01	0.692	5.000	4.599	4.599	0.175	0.175	0.175	0.175	0.000	2.520	0.000	25.000
EW02	2.261	5.000	15.027	15.027	0.175	0.175	0.175	0.175	0.000	1.234	0.000	25.000
EW03	5.723	5.000	38.033	38.033	0.175	0.175	0.175	0.175	0.000	1.274	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.138	16.00	0.009
EE02	100	0.218	16.00	0.014
EE03	100	0.154	16.00	0.010
EE04	100	0.117	16.00	0.007
EE05	100	1.392	16.00	0.087
EE06	100	0.208	16.00	0.013
EE07	100	0.230	16.00	0.014
EE08	100	0.423	16.00	0.026
EE09	100	0.057	16.00	0.004
EE10	100	0.367	16.00	0.023
EW01	100	0.086	16.00	0.005
EW02	100	0.223	16.00	0.014
EW03	100	0.532	16.00	0.033
--	100	0.000	16.00	0.000
--	100	0.000	16.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-319
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Benzidine

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	1.349	1.250	8.963	8.963	0.175	0.175	0.175	0.175	0.000	3.888	0.000	25.000
EE02	2.168	1.250	14.408	14.408	0.175	0.175	0.175	0.175	0.000	6.404	0.000	25.000
EE03	1.533	1.250	10.188	10.188	0.175	0.175	0.175	0.175	0.000	3.767	0.000	25.000
EE04	1.080	5.000	7.174	7.174	0.175	0.175	0.175	0.175	0.000	1.243	0.000	25.000
EE05	15.128	5.000	100.527	100.527	0.175	0.175	0.175	0.175	0.000	9.355	0.000	25.000
EE06	2.020	5.000	13.423	13.423	0.175	0.175	0.175	0.175	0.000	3.703	0.000	25.000
EE07	2.349	5.000	15.607	15.607	0.175	0.175	0.175	0.175	0.000	1.244	0.000	25.000
EE08	4.473	5.000	29.725	29.725	0.175	0.175	0.175	0.175	0.000	2.495	0.000	25.000
EE09	0.406	5.000	2.700	2.700	0.175	0.175	0.175	0.175	0.000	1.263	0.000	25.000
EE10	3.878	5.000	25.771	25.771	0.175	0.175	0.175	0.175	0.000	1.254	0.000	25.000
EW01	0.692	5.000	4.599	4.599	0.175	0.175	0.175	0.175	0.000	2.520	0.000	25.000
EW02	2.261	5.000	15.027	15.027	0.175	0.175	0.175	0.175	0.000	1.234	0.000	25.000
EW03	5.723	5.000	38.033	38.033	0.175	0.175	0.175	0.175	0.000	1.274	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.138	160.00	0.001
EE02	100	0.218	160.00	0.001
EE03	100	0.154	160.00	0.001
EE04	100	0.117	160.00	0.001
EE05	100	1.392	160.00	0.009
EE06	100	0.208	160.00	0.001
EE07	100	0.230	160.00	0.001
EE08	100	0.423	160.00	0.003
EE09	100	0.057	160.00	0.000
EE10	100	0.367	160.00	0.002
EW01	100	0.086	160.00	0.001
EW02	100	0.223	160.00	0.001
EW03	100	0.532	160.00	0.003
--	100	0.000	160.00	0.000
--	100	0.000	160.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-320
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to Benzidine**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.236	1.250	14.857	14.857	0.175	0.175	0.175	0.175	0.000	6.225	0.000	25.000
EE02	4.254	1.250	28.268	28.268	0.175	0.175	0.175	0.175	0.000	12.540	0.000	25.000
EE03	2.067	1.250	13.736	13.736	0.175	0.175	0.175	0.175	0.000	5.040	0.000	25.000
EE04	1.097	5.000	7.291	7.291	0.175	0.175	0.175	0.175	0.000	1.245	0.000	25.000
EE05	19.498	5.000	129.569	129.569	0.175	0.175	0.175	0.175	0.000	12.470	0.000	25.000
EE06	3.397	5.000	22.574	22.574	0.175	0.175	0.175	0.175	0.000	6.160	0.000	25.000
EE07	2.529	5.000	16.807	16.807	0.175	0.175	0.175	0.175	0.000	1.245	0.000	25.000
EE08	4.874	5.000	32.387	32.387	0.175	0.175	0.175	0.175	0.000	2.519	0.000	25.000
EE09	0.406	5.000	2.700	2.700	0.175	0.175	0.175	0.175	0.000	1.271	0.000	25.000
EE10	4.003	5.000	26.602	26.602	0.175	0.175	0.175	0.175	0.000	1.260	0.000	25.000
EW01	0.908	5.000	6.031	6.031	0.175	0.175	0.175	0.175	0.000	2.520	0.000	25.000
EW02	2.369	5.000	15.743	15.743	0.175	0.175	0.175	0.175	0.000	1.238	0.000	25.000
EW03	5.914	5.000	39.301	39.301	0.175	0.175	0.175	0.175	0.000	1.276	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	0.223	16.00	0.014
EE02	100	0.421	16.00	0.026
EE03	100	0.202	16.00	0.013
EE04	100	0.119	16.00	0.007
EE05	100	1.782	16.00	0.111
EE06	100	0.331	16.00	0.021
EE07	100	0.247	16.00	0.015
EE08	100	0.459	16.00	0.029
EE09	100	0.057	16.00	0.004
EE10	100	0.378	16.00	0.024
EW01	100	0.105	16.00	0.007
EW02	100	0.232	16.00	0.015
EW03	100	0.549	16.00	0.034
--	100	0.000	16.00	0.000
--	100	0.000	16.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-321
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to Benzidine**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.236	1.250	14.857	14.857	0.175	0.175	0.175	0.175	0.000	6.225	0.000	25.000
EE02	4.254	1.250	28.268	28.268	0.175	0.175	0.175	0.175	0.000	12.540	0.000	25.000
EE03	2.067	1.250	13.736	13.736	0.175	0.175	0.175	0.175	0.000	5.040	0.000	25.000
EE04	1.097	5.000	7.291	7.291	0.175	0.175	0.175	0.175	0.000	1.245	0.000	25.000
EE05	19.498	5.000	129.569	129.569	0.175	0.175	0.175	0.175	0.000	12.470	0.000	25.000
EE06	3.397	5.000	22.574	22.574	0.175	0.175	0.175	0.175	0.000	6.160	0.000	25.000
EE07	2.529	5.000	16.807	16.807	0.175	0.175	0.175	0.175	0.000	1.245	0.000	25.000
EE08	4.874	5.000	32.387	32.387	0.175	0.175	0.175	0.175	0.000	2.519	0.000	25.000
EE09	0.406	5.000	2.700	2.700	0.175	0.175	0.175	0.175	0.000	1.271	0.000	25.000
EE10	4.003	5.000	26.602	26.602	0.175	0.175	0.175	0.175	0.000	1.260	0.000	25.000
EW01	0.908	5.000	6.031	6.031	0.175	0.175	0.175	0.175	0.000	2.520	0.000	25.000
EW02	2.369	5.000	15.743	15.743	0.175	0.175	0.175	0.175	0.000	1.238	0.000	25.000
EW03	5.914	5.000	39.301	39.301	0.175	0.175	0.175	0.175	0.000	1.276	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	0.223	160.00	0.001
EE02	100	0.421	160.00	0.003
EE03	100	0.202	160.00	0.001
EE04	100	0.119	160.00	0.001
EE05	100	1.782	160.00	0.011
EE06	100	0.331	160.00	0.002
EE07	100	0.247	160.00	0.002
EE08	100	0.459	160.00	0.003
EE09	100	0.057	160.00	0.000
EE10	100	0.378	160.00	0.002
EW01	100	0.105	160.00	0.001
EW02	100	0.232	160.00	0.001
EW03	100	0.549	160.00	0.003
--	100	0.000	160.00	0.000
--	100	0.000	160.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-322
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Muskrat exposed to Benzidine

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	87.31	2.61	0.00	0.00	0.24	0.12	0.12	0.00	0.00	7.73	0.00	1.86
EE02	88.80	1.65	0.00	0.00	0.15	0.08	0.08	0.00	0.00	8.06	0.00	1.18
EE03	88.85	2.34	0.00	0.00	0.22	0.11	0.11	0.00	0.00	6.71	0.00	1.67
EE04	82.07	12.26	0.00	0.00	0.29	0.14	0.14	0.00	0.00	2.90	0.00	2.19
EE05	96.89	1.03	0.00	0.00	0.02	0.01	0.01	0.00	0.00	1.84	0.00	0.18
EE06	86.64	6.92	0.00	0.00	0.16	0.08	0.08	0.00	0.00	4.88	0.00	1.24
EE07	90.88	6.24	0.00	0.00	0.15	0.07	0.07	0.00	0.00	1.48	0.00	1.11
EE08	94.22	3.40	0.00	0.00	0.08	0.04	0.04	0.00	0.00	1.61	0.00	0.61
EE09	63.21	25.10	0.00	0.00	0.59	0.29	0.29	0.00	0.00	6.04	0.00	4.48
EE10	94.26	3.92	0.00	0.00	0.09	0.05	0.05	0.00	0.00	0.94	0.00	0.70
EW01	71.56	16.68	0.00	0.00	0.39	0.19	0.19	0.00	0.00	8.01	0.00	2.98
EW02	90.57	6.46	0.00	0.00	0.15	0.08	0.08	0.00	0.00	1.52	0.00	1.15
EW03	96.03	2.71	0.00	0.00	0.06	0.03	0.03	0.00	0.00	0.66	0.00	0.48
Average	87.02	7.02	0.00	0.00	0.20	0.10	0.10	0.00	0.00	4.03	0.00	1.53

**TABLE I-323
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to High MW PAHs**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.013	1.320	583.185	510.287	2873.077	1915.385	195.447	390.895	0.000	12.868	0.000	10.000
EE02	0.053	1.320	2423.548	2120.605	3591.347	2394.231	244.309	488.619	0.000	92.352	0.000	12.500
EE03	0.036	1.320	1637.862	1433.129	3591.347	2394.231	244.309	488.619	0.000	31.242	0.000	12.500
EE04	0.041	5.200	1867.674	1634.214	3591.347	2394.231	244.309	488.619	0.000	16.517	0.000	12.500
EE05	0.053	5.200	2423.548	2120.605	3979.212	2652.808	270.695	541.389	0.000	27.483	0.000	13.850
EE06	0.006	5.200	289.492	253.305	4309.616	2873.077	293.171	586.342	0.000	4.123	0.000	15.000
EE07	0.008	5.200	362.349	317.055	4309.616	2873.077	293.171	586.342	0.000	1.426	0.000	15.000
EE08	0.008	5.200	350.660	306.828	4309.616	2873.077	293.171	586.342	0.000	1.527	0.000	15.000
EE09	0.001	5.200	38.125	33.360	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EE10	0.007	5.200	324.826	284.223	4309.616	2873.077	293.171	586.342	0.000	0.812	0.000	15.000
EW01	0.003	5.200	158.006	138.256	4309.616	2873.077	293.171	586.342	0.000	4.291	0.000	15.000
EW02	0.007	5.200	328.280	287.245	4309.616	2873.077	293.171	586.342	0.000	1.395	0.000	15.000
EW03	0.014	5.200	634.788	555.439	4309.616	2873.077	293.171	586.342	0.000	1.132	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	7.575	0.24	31.564
EE02	100	9.680	0.24	40.335
EE03	100	9.511	0.24	39.631
EE04	100	9.483	0.24	39.511
EE05	100	10.531	0.24	43.880
EE06	100	11.330	0.24	47.206
EE07	100	11.322	0.24	47.176
EE08	100	11.323	0.24	47.177
EE09	100	11.320	0.24	47.168
EE10	100	11.321	0.24	47.169
EW01	100	11.330	0.24	47.207
EW02	100	11.322	0.24	47.175
EW03	100	11.322	0.24	47.175
--	100	0.000	0.24	0.000
--	100	0.000	0.24	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-324
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to High MW PAHs**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.013	1.320	583.185	510.287	2873.077	1915.385	195.447	390.895	0.000	12.868	0.000	10.000
EE02	0.033	1.320	2423.548	2120.605	3591.347	2394.231	244.309	488.619	0.000	92.352	0.000	12.500
EE03	0.036	1.320	1637.862	1433.129	3591.347	2394.231	244.309	488.619	0.000	31.242	0.000	12.500
EE04	0.041	5.200	1867.674	1634.214	3591.347	2394.231	244.309	488.619	0.000	16.517	0.000	12.500
EE05	0.053	5.200	2423.548	2120.605	3979.212	2652.808	270.695	541.389	0.000	27.483	0.000	13.850
EE06	0.006	5.200	289.492	253.305	4309.616	2873.077	293.171	586.342	0.000	4.123	0.000	15.000
EE07	0.008	5.200	362.349	317.055	4309.616	2873.077	293.171	586.342	0.000	1.426	0.000	15.000
EE08	0.008	5.200	350.660	306.828	4309.616	2873.077	293.171	586.342	0.000	1.527	0.000	15.000
EE09	0.001	5.200	38.125	33.360	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EE10	0.007	5.200	324.826	284.223	4309.616	2873.077	293.171	586.342	0.000	0.812	0.000	15.000
EW01	0.003	5.200	158.006	138.256	4309.616	2873.077	293.171	586.342	0.000	4.291	0.000	15.000
EW02	0.007	5.200	328.280	287.245	4309.616	2873.077	293.171	586.342	0.000	1.395	0.000	15.000
EW03	0.014	5.200	634.788	555.439	4309.616	2873.077	293.171	586.342	0.000	1.132	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	7.575	2.40	3.156
EE02	100	9.680	2.40	4.034
EE03	100	9.511	2.40	3.963
EE04	100	9.483	2.40	3.951
EE05	100	10.531	2.40	4.388
EE06	100	11.330	2.40	4.721
EE07	100	11.322	2.40	4.718
EE08	100	11.323	2.40	4.718
EE09	100	11.320	2.40	4.717
EE10	100	11.321	2.40	4.717
EW01	100	11.330	2.40	4.721
EW02	100	11.322	2.40	4.718
EW03	100	11.322	2.40	4.717
--	100	0.000	2.40	0.000
--	100	0.000	2.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

**TABLE I-325
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Muskrat exposed to High MW PAHs**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.023	1.320	1054.374	922.577	4309.616	2873.077	293.171	586.342	0.000	22.817	0.000	15.000
EE02	0.053	1.320	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	163.704	0.000	15.000
EE03	0.052	1.320	2363.170	2067.774	4309.616	2873.077	293.171	586.342	0.000	44.780	0.000	15.000
EE04	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	26.792	0.000	15.000
EE05	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	36.051	0.000	15.000
EE06	0.011	5.200	489.225	428.072	4309.616	2873.077	293.171	586.342	0.000	6.895	0.000	15.000
EE07	0.013	5.200	593.593	519.394	4309.616	2873.077	293.171	586.342	0.000	2.266	0.000	15.000
EE08	0.008	5.200	362.515	317.201	4309.616	2873.077	293.171	586.342	0.000	1.597	0.000	15.000
EE09	0.001	5.200	44.010	38.509	4309.616	2873.077	293.171	586.342	0.000	1.057	0.000	15.000
EE10	0.008	5.200	379.876	332.392	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EW01	0.005	5.200	225.765	197.544	4309.616	2873.077	293.171	586.342	0.000	4.872	0.000	15.000
EW02	0.007	5.200	328.834	287.730	4309.616	2873.077	293.171	586.342	0.000	1.455	0.000	15.000
EW03	0.026	5.200	1171.387	1024.964	4309.616	2873.077	293.171	586.342	0.000	2.100	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	100	11.371	0.24	47.379
EE02	100	11.760	0.24	48.999
EE03	100	11.434	0.24	47.641
EE04	100	11.396	0.24	47.482
EE05	100	11.421	0.24	47.588
EE06	100	11.337	0.24	47.240
EE07	100	11.325	0.24	47.188
EE08	100	11.323	0.24	47.178
EE09	100	11.321	0.24	47.169
EE10	100	11.321	0.24	47.170
EW01	100	11.331	0.24	47.214
EW02	100	11.322	0.24	47.176
EW03	100	11.326	0.24	47.190
--	100	0.000	0.24	0.000
--	100	0.000	0.24	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/ Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-326
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Muskrat exposed to High MW PAHs

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.023	1.320	1054.374	922.577	4309.616	2873.077	293.171	586.342	0.000	22.817	0.000	15.000
EE02	0.053	1.320	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	163.704	0.000	15.000
EE03	0.052	1.320	2363.170	2067.774	4309.616	2873.077	293.171	586.342	0.000	44.780	0.000	15.000
EE04	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	26.792	0.000	15.000
EE05	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	36.051	0.000	15.000
EE06	0.011	5.200	489.225	428.072	4309.616	2873.077	293.171	586.342	0.000	6.895	0.000	15.000
EE07	0.013	5.200	593.593	519.394	4309.616	2873.077	293.171	586.342	0.000	2.266	0.000	15.000
EE08	0.008	5.200	362.515	317.201	4309.616	2873.077	293.171	586.342	0.000	1.597	0.000	15.000
EE09	0.001	5.200	44.010	38.509	4309.616	2873.077	293.171	586.342	0.000	1.057	0.000	15.000
EE10	0.008	5.200	379.876	332.392	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EW01	0.005	5.200	225.765	197.544	4309.616	2873.077	293.171	586.342	0.000	4.872	0.000	15.000
EW02	0.007	5.200	328.834	287.730	4309.616	2873.077	293.171	586.342	0.000	1.455	0.000	15.000
EW03	0.026	5.200	1171.387	1024.964	4309.616	2873.077	293.171	586.342	0.000	2.100	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	100	11.371	2.40	4.738
EE02	100	11.760	2.40	4.900
EE03	100	11.434	2.40	4.764
EE04	100	11.396	2.40	4.748
EE05	100	11.421	2.40	4.759
EE06	100	11.337	2.40	4.724
EE07	100	11.325	2.40	4.719
EE08	100	11.323	2.40	4.718
EE09	100	11.321	2.40	4.717
EE10	100	11.321	2.40	4.717
EW01	100	11.331	2.40	4.721
EW02	100	11.322	2.40	4.718
EW03	100	11.326	2.40	4.719
--	100	0.000	2.40	0.000
--	100	0.000	2.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	0.7
Food Ingestion Rate (kg/day)	0.070
Sediment Ingestion Rate (kg/day)	0.002
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.075

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	93
Crayfish	3
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	0
Reptiles/Amphibians	2
Birds	1
Mammals	1
Fish	0
Other Items	0

TABLE I-327
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Muskrat exposed to High MW PAHs

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.01	0.05	0.00	0.00	72.74	24.25	2.47	0.00	0.00	0.47	0.00	0.01
EE02	0.05	0.04	0.00	0.00	71.15	23.72	2.42	0.00	0.00	2.61	0.00	0.01
EE03	0.03	0.04	0.00	0.00	72.41	24.14	2.46	0.00	0.00	0.90	0.00	0.01
EE04	0.04	0.16	0.00	0.00	72.63	24.21	2.47	0.00	0.00	0.48	0.00	0.01
EE05	0.04	0.14	0.00	0.00	72.46	24.15	2.46	0.00	0.00	0.71	0.00	0.01
EE06	0.00	0.13	0.00	0.00	72.95	24.32	2.48	0.00	0.00	0.10	0.00	0.01
EE07	0.01	0.13	0.00	0.00	73.00	24.33	2.48	0.00	0.00	0.03	0.00	0.01
EE08	0.01	0.13	0.00	0.00	73.00	24.33	2.48	0.00	0.00	0.04	0.00	0.01
EE09	0.00	0.13	0.00	0.00	73.01	24.34	2.48	0.00	0.00	0.02	0.00	0.01
EE10	0.01	0.13	0.00	0.00	73.01	24.34	2.48	0.00	0.00	0.02	0.00	0.01
EW01	0.00	0.13	0.00	0.00	72.95	24.32	2.48	0.00	0.00	0.10	0.00	0.01
EW02	0.01	0.13	0.00	0.00	73.00	24.33	2.48	0.00	0.00	0.03	0.00	0.01
EW03	0.01	0.13	0.00	0.00	73.00	24.33	2.48	0.00	0.00	0.03	0.00	0.01
Average	0.02	0.11	0.00	0.00	72.72	24.24	2.47	0.00	0.00	0.43	0.00	0.01

**TABLE I-328
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Antimony**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	4.859	0.000	30.000
EE02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	10.476	0.000	30.000
EE03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	4.487	0.000	30.000
EE04	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.994	0.000	30.000
EE05	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.850	0.000	30.000
EE06	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.011	0.000	30.000
EE07	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.024	0.000	30.000
EE08	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.999	0.000	30.000
EE09	11.250	3.000	600.000	600.000	0.128	0.128	0.128	0.128	0.000	2.995	0.000	37.500
EE10	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.014	0.000	30.000
EW01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.002	0.000	30.000
EW02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.997	0.000	30.000
EW03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.993	0.000	30.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	18	0.734	134.00	0.005	
EE02	18	0.739	134.00	0.006	
EE03	18	0.734	134.00	0.005	
EE04	18	0.733	134.00	0.005	
EE05	18	0.733	134.00	0.005	
EE06	18	0.733	134.00	0.005	
EE07	18	0.733	134.00	0.005	
EE08	18	0.733	134.00	0.005	
EE09	18	0.913	134.00	0.007	
EE10	18	0.733	134.00	0.005	
EW01	18	0.733	134.00	0.005	
EW02	18	0.733	134.00	0.005	
EW03	18	0.733	134.00	0.005	
Unused	18	0.000	134.00	0.000	
Unused	18	0.000	134.00	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-329
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Antimony**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	4.859	0.000	30.000
EE02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	10.476	0.000	30.000
EE03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	4.487	0.000	30.000
EE04	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.994	0.000	30.000
EE05	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.850	0.000	30.000
EE06	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.011	0.000	30.000
EE07	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.024	0.000	30.000
EE08	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.999	0.000	30.000
EE09	11.250	3.000	600.000	600.000	0.128	0.128	0.128	0.128	0.000	2.995	0.000	37.500
EE10	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.014	0.000	30.000
EW01	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	3.002	0.000	30.000
EW02	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.997	0.000	30.000
EW03	9.000	3.000	480.000	480.000	0.102	0.102	0.102	0.102	0.000	2.993	0.000	30.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.734	1338.00	0.001
EE02	18	0.739	1338.00	0.001
EE03	18	0.734	1338.00	0.001
EE04	18	0.733	1338.00	0.001
EE05	18	0.733	1338.00	0.001
EE06	18	0.733	1338.00	0.001
EE07	18	0.733	1338.00	0.001
EE08	18	0.733	1338.00	0.001
EE09	18	0.913	1338.00	0.001
EE10	18	0.733	1338.00	0.001
EW01	18	0.733	1338.00	0.001
EW02	18	0.733	1338.00	0.001
EW03	18	0.733	1338.00	0.001
Unused	18	0.000	1338.00	0.000
Unused	18	0.000	1338.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-330
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Antimony**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	6.018	0.000	30,000
EE02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	14.910	0.000	30,000
EE03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	5.964	0.000	30,000
EE04	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.000	0.000	30,000
EE05	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	5.694	0.000	30,000
EE06	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.014	0.000	30,000
EE07	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.030	0.000	30,000
EE08	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.002	0.000	30,000
EE09	13,500	3,000	720,000	720,000	0.153	0.153	0.153	0.153	0.000	2.997	0.000	45,000
EE10	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.024	0.000	30,000
EW01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.003	0.000	30,000
EW02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3.000	0.000	30,000
EW03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2.993	0.000	30,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.735	134.00	0.005
EE02	18	0.743	134.00	0.006
EE03	18	0.735	134.00	0.005
EE04	18	0.733	134.00	0.005
EE05	18	0.735	134.00	0.005
EE06	18	0.733	134.00	0.005
EE07	18	0.733	134.00	0.005
EE08	18	0.733	134.00	0.005
EE09	18	1.093	134.00	0.008
EE10	18	0.733	134.00	0.005
EW01	18	0.733	134.00	0.005
EW02	18	0.733	134.00	0.005
EW03	18	0.733	134.00	0.005
Unused	18	0.000	134.00	0.000
Unused	18	0.000	134.00	0.000

TABLE I-331
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Antimony

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	6,018	0.000	30,000
EE02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	14,910	0.000	30,000
EE03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	5,964	0.000	30,000
EE04	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,000	0.000	30,000
EE05	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	5,694	0.000	30,000
EE06	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,014	0.000	30,000
EE07	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,030	0.000	30,000
EE08	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,002	0.000	30,000
EE09	13,500	3,000	720,000	720,000	0.153	0.153	0.153	0.153	0.000	2,997	0.000	45,000
EE10	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,024	0.000	30,000
EW01	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,003	0.000	30,000
EW02	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	3,000	0.000	30,000
EW03	9,000	3,000	480,000	480,000	0.102	0.102	0.102	0.102	0.000	2,993	0.000	30,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.735	1338.00	0.001
EE02	18	0.743	1338.00	0.001
EE03	18	0.735	1338.00	0.001
EE04	18	0.733	1338.00	0.001
EE05	18	0.735	1338.00	0.001
EE06	18	0.733	1338.00	0.001
EE07	18	0.733	1338.00	0.001
EE08	18	0.733	1338.00	0.001
EE09	18	1.093	1338.00	0.001
EE10	18	0.733	1338.00	0.001
EW01	18	0.733	1338.00	0.001
EW02	18	0.733	1338.00	0.001
EW03	18	0.733	1338.00	0.001
Unused	18	0.000	1338.00	0.000
Unused	18	0.000	1338.00	0.000

TABLE I-332
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Raccoon exposed to Antimony

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	4.45	1.17	0.00	93.72	0.01	0.01	0.00	0.01	0.00	0.57	0.00	0.06
EE02	4.42	1.16	0.00	93.11	0.01	0.01	0.00	0.01	0.00	1.22	0.00	0.06
EE03	4.45	1.17	0.00	93.76	0.01	0.01	0.00	0.01	0.00	0.52	0.00	0.06
EE04	4.46	1.17	0.00	93.93	0.01	0.01	0.00	0.01	0.00	0.35	0.00	0.06
EE05	4.46	1.17	0.00	93.83	0.01	0.01	0.00	0.01	0.00	0.45	0.00	0.06
EE06	4.46	1.17	0.00	93.93	0.01	0.01	0.00	0.01	0.00	0.35	0.00	0.06
EE07	4.46	1.17	0.00	93.92	0.01	0.01	0.00	0.01	0.00	0.35	0.00	0.06
EE08	4.46	1.17	0.00	93.93	0.01	0.01	0.00	0.01	0.00	0.35	0.00	0.06
EE09	4.48	0.94	0.00	94.22	0.01	0.01	0.00	0.01	0.00	0.28	0.00	0.06
EE10	4.46	1.17	0.00	93.93	0.01	0.01	0.00	0.01	0.00	0.35	0.00	0.06
EW01	4.46	1.17	0.00	93.93	0.01	0.01	0.00	0.01	0.00	0.35	0.00	0.06
EW02	4.46	1.17	0.00	93.93	0.01	0.01	0.00	0.01	0.00	0.35	0.00	0.06
EW03	4.46	1.17	0.00	93.93	0.01	0.01	0.00	0.01	0.00	0.35	0.00	0.06
Average	4.46	1.16	0.00	93.85	0.01	0.01	0.00	0.01	0.00	0.45	0.00	0.06

**TABLE I-333
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Arsenic**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.581	0.000	2.500
EE02	0.799	0.520	0.149	0.149	0.004	0.004	0.004	0.004	0.000	3.768	0.000	2.400
EE03	1.215	0.520	0.226	0.226	0.007	0.007	0.007	0.007	0.000	1.103	0.000	3.650
EE04	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	1.104	0.000	3.750
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.558	0.000	5.000
EE06	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	2.447	0.000	3.750
EE07	0.450	0.720	0.084	0.084	0.002	0.002	0.002	0.002	0.000	0.482	0.000	1.350
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.235	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.663	0.000	2.500
EE10	38.711	0.720	7.208	7.208	0.209	0.209	0.209	0.209	0.000	2.016	0.000	116.250
EW01	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.461	0.000	2.050
EW02	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.488	0.000	2.050
EW03	0.716	0.500	0.133	0.133	0.004	0.004	0.004	0.004	0.000	2.914	0.000	2.150
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.006	0.90	0.007
EE02	18	0.008	0.90	0.009
EE03	18	0.007	0.90	0.008
EE04	18	0.008	0.90	0.009
EE05	18	0.011	0.90	0.012
EE06	18	0.009	0.90	0.010
EE07	18	0.004	0.90	0.005
EE08	18	0.006	0.90	0.007
EE09	18	0.006	0.90	0.007
EE10	18	0.157	0.90	0.174
EW01	18	0.005	0.90	0.006
EW02	18	0.005	0.90	0.006
EW03	18	0.007	0.90	0.008
Unused	18	0.000	0.90	0.000
Unused	18	0.000	0.90	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-334
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Arsenic

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.581	0.000	2.500
EE02	0.799	0.520	0.149	0.149	0.004	0.004	0.004	0.004	0.000	3.768	0.000	2.400
EE03	1.215	0.520	0.226	0.226	0.007	0.007	0.007	0.007	0.000	1.103	0.000	3.650
EE04	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	1.104	0.000	3.750
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.558	0.000	5.000
EE06	1.249	0.620	0.233	0.233	0.007	0.007	0.007	0.007	0.000	2.447	0.000	3.750
EE07	0.450	0.720	0.084	0.084	0.002	0.002	0.002	0.002	0.000	0.482	0.000	1.350
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.235	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.663	0.000	2.500
EE10	38.711	0.720	7.208	7.208	0.209	0.209	0.209	0.209	0.000	2.016	0.000	116.250
EW01	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.461	0.000	2.050
EW02	0.683	0.500	0.127	0.127	0.004	0.004	0.004	0.004	0.000	1.488	0.000	2.050
EW03	0.716	0.500	0.133	0.133	0.004	0.004	0.004	0.004	0.000	2.914	0.000	2.150
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.006	9.00	0.001
EE02	18	0.008	9.00	0.001
EE03	18	0.007	9.00	0.001
EE04	18	0.008	9.00	0.001
EE05	18	0.011	9.00	0.001
EE06	18	0.009	9.00	0.001
EE07	18	0.004	9.00	0.000
EE08	18	0.006	9.00	0.001
EE09	18	0.006	9.00	0.001
EE10	18	0.157	9.00	0.017
EW01	18	0.005	9.00	0.001
EW02	18	0.005	9.00	0.001
EW03	18	0.007	9.00	0.001
Unused	18	0.000	9.00	0.000
Unused	18	0.000	9.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-335
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Arsenic**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	2.000	0.000	2.500
EE02	1.232	0.520	0.229	0.229	0.007	0.007	0.007	0.007	0.000	6.612	0.000	3.700
EE03	1.665	0.520	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.260	0.000	5.000
EE04	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.328	0.000	5.000
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	3.010	0.000	5.000
EE06	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.684	0.000	5.000
EE07	0.566	0.720	0.105	0.105	0.003	0.003	0.003	0.003	0.000	0.682	0.000	1.700
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.296	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.891	0.000	2.500
EE10	76.590	0.720	14.260	14.260	0.414	0.414	0.414	0.414	0.000	2.184	0.000	230.000
EW01	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.722	0.000	2.500
EW02	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.500	0.000	2.500
EW03	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	5.104	0.000	2.500
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.006	0.90	0.007
EE02	18	0.012	0.90	0.013
EE03	18	0.009	0.90	0.010
EE04	18	0.009	0.90	0.010
EE05	18	0.011	0.90	0.012
EE06	18	0.010	0.90	0.011
EE07	18	0.005	0.90	0.005
EE08	18	0.006	0.90	0.007
EE09	18	0.006	0.90	0.007
EE10	18	0.294	0.90	0.327
EW01	18	0.006	0.90	0.007
EW02	18	0.006	0.90	0.007
EW03	18	0.007	0.90	0.008
Unused	18	0.000	0.90	0.000
Unused	18	0.000	0.90	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

**TABLE I-336
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Arsenic**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.833	0.520	0.155	0.155	0.005	0.005	0.005	0.005	0.000	2.000	0.000	2.500
EE02	1.232	0.520	0.229	0.229	0.007	0.007	0.007	0.007	0.000	6.612	0.000	3.700
EE03	1.665	0.520	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.260	0.000	5.000
EE04	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	1.328	0.000	5.000
EE05	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	3.010	0.000	5.000
EE06	1.665	0.620	0.310	0.310	0.009	0.009	0.009	0.009	0.000	2.684	0.000	5.000
EE07	0.566	0.720	0.105	0.105	0.003	0.003	0.003	0.003	0.000	0.682	0.000	1.700
EE08	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.296	0.000	2.500
EE09	0.833	0.720	0.155	0.155	0.005	0.005	0.005	0.005	0.000	0.891	0.000	2.500
EE10	76.590	0.720	14.260	14.260	0.414	0.414	0.414	0.414	0.000	2.184	0.000	230.000
EW01	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.722	0.000	2.500
EW02	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	1.500	0.000	2.500
EW03	0.833	0.500	0.155	0.155	0.005	0.005	0.005	0.005	0.000	5.104	0.000	2.500
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (L/OAEL)	HAZARD QUOTIENT
EE01	18	0.006	9.00	0.001
EE02	18	0.012	9.00	0.001
EE03	18	0.009	9.00	0.001
EE04	18	0.009	9.00	0.001
EE05	18	0.011	9.00	0.001
EE06	18	0.010	9.00	0.001
EE07	18	0.005	9.00	0.001
EE08	18	0.006	9.00	0.001
EE09	18	0.006	9.00	0.001
EE10	18	0.294	9.00	0.033
EW01	18	0.006	9.00	0.001
EW02	18	0.006	9.00	0.001
EW03	18	0.007	9.00	0.001
Unused	18	0.000	9.00	0.000
Unused	18	0.000	9.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-337
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Raccoon exposed to Arsenic

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	49.26	24.29	0.00	3.62	0.04	0.04	0.01	0.04	0.00	22.08	0.00	0.63
EE02	36.83	18.92	0.00	2.71	0.03	0.03	0.01	0.03	0.00	40.98	0.00	0.47
EE03	60.95	20.59	0.00	4.48	0.04	0.04	0.02	0.04	0.00	13.05	0.00	0.78
EE04	59.20	23.20	0.00	4.35	0.04	0.04	0.02	0.04	0.00	12.35	0.00	0.76
EE05	57.30	16.84	0.00	4.21	0.04	0.04	0.02	0.04	0.00	20.78	0.00	0.73
EE06	51.47	20.17	0.00	3.78	0.04	0.04	0.01	0.04	0.00	23.80	0.00	0.66
EE07	38.37	48.52	0.00	2.82	0.03	0.03	0.01	0.03	0.00	9.71	0.00	0.49
EE08	47.14	32.19	0.00	3.46	0.03	0.03	0.01	0.03	0.00	16.50	0.00	0.60
EE09	51.04	34.85	0.00	3.75	0.04	0.04	0.01	0.04	0.00	9.59	0.00	0.65
EE10	89.63	1.32	0.00	6.59	0.06	0.06	0.03	0.06	0.00	1.10	0.00	1.14
EW01	46.04	26.62	0.00	3.38	0.03	0.03	0.01	0.03	0.00	23.26	0.00	0.59
EW02	45.84	26.51	0.00	3.37	0.03	0.03	0.01	0.03	0.00	23.58	0.00	0.58
EW03	38.45	21.20	0.00	2.83	0.03	0.03	0.01	0.03	0.00	36.94	0.00	0.49
Average	51.66	24.25	0.00	3.80	0.04	0.04	0.01	0.04	0.00	19.52	0.00	0.66

**TABLE I-338
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Cadmium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1.170	2.200	1.350	1.350	0.043	0.043	0.043	0.043	0.000	1.722	0.000	1.390
EE02	1.394	2.200	1.607	1.607	0.051	0.051	0.051	0.051	0.000	0.877	0.000	1.655
EE03	1.402	2.200	1.617	1.617	0.051	0.051	0.051	0.051	0.000	3.385	0.000	1.665
EE04	0.278	6.900	0.320	0.320	0.010	0.010	0.010	0.010	0.000	2.685	0.000	0.330
EE05	6.989	6.900	8.059	8.059	0.256	0.256	0.256	0.256	0.000	124.630	0.000	8.300
EE06	0.741	6.900	0.854	0.854	0.027	0.027	0.027	0.027	0.000	45.100	0.000	0.880
EE07	0.800	1.700	0.922	0.922	0.029	0.029	0.029	0.029	0.000	4.038	0.000	0.950
EE08	0.720	3.500	0.830	0.830	0.026	0.026	0.026	0.026	0.000	13.581	0.000	0.855
EE09	0.741	4.600	0.854	0.854	0.027	0.027	0.027	0.027	0.000	22.333	0.000	0.880
EE10	0.770	4.600	0.888	0.888	0.028	0.028	0.028	0.028	0.000	11.133	0.000	0.915
EW01	0.265	2.630	0.306	0.306	0.010	0.010	0.010	0.010	0.000	15.843	0.000	0.315
EW02	1.162	2.630	1.340	1.340	0.043	0.043	0.043	0.043	0.000	2.949	0.000	1.380
EW03	0.552	2.630	0.636	0.636	0.020	0.020	0.020	0.020	0.000	1.049	0.000	0.655
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.014	0.16	0.088
EE02	18	0.015	0.16	0.091
EE03	18	0.017	0.16	0.105
EE04	18	0.024	0.16	0.147
EE05	18	0.164	0.16	1.026
EE06	18	0.062	0.16	0.390
EE07	18	0.013	0.16	0.079
EE08	18	0.026	0.16	0.160
EE09	18	0.036	0.16	0.227
EE10	18	0.027	0.16	0.168
EW01	18	0.023	0.16	0.141
EW02	18	0.016	0.16	0.102
EW03	18	0.011	0.16	0.071
Unused	18	0.000	0.16	0.000
Unused	18	0.000	0.16	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-339
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Cadmium

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1.170	2.200	1.350	1.350	0.043	0.043	0.043	0.043	0.000	1.722	0.000	1.390
EE02	1.394	2.200	1.607	1.607	0.051	0.051	0.051	0.051	0.000	0.877	0.000	1.655
EE03	1.402	2.200	1.617	1.617	0.051	0.051	0.051	0.051	0.000	3.385	0.000	1.665
EE04	0.278	6.900	0.320	0.320	0.010	0.010	0.010	0.010	0.000	2.685	0.000	0.330
EE05	6.989	6.900	8.059	8.059	0.256	0.256	0.256	0.256	0.000	124.630	0.000	8.300
EE06	0.741	6.900	0.854	0.854	0.027	0.027	0.027	0.027	0.000	45.100	0.000	0.880
EE07	0.800	1.700	0.922	0.922	0.029	0.029	0.029	0.029	0.000	4.038	0.000	0.950
EE08	0.720	3.500	0.830	0.830	0.026	0.026	0.026	0.026	0.000	13.581	0.000	0.855
EE09	0.741	4.600	0.854	0.854	0.027	0.027	0.027	0.027	0.000	22.333	0.000	0.880
EE10	0.770	4.600	0.888	0.888	0.028	0.028	0.028	0.028	0.000	11.133	0.000	0.915
EW01	0.265	2.630	0.306	0.306	0.010	0.010	0.010	0.010	0.000	15.843	0.000	0.315
EW02	1.162	2.630	1.340	1.340	0.043	0.043	0.043	0.043	0.000	2.949	0.000	1.380
EW03	0.552	2.630	0.636	0.636	0.020	0.020	0.020	0.020	0.000	1.049	0.000	0.655
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.014	1.60	0.009
EE02	18	0.015	1.60	0.009
EE03	18	0.017	1.60	0.010
EE04	18	0.024	1.60	0.015
EE05	18	0.164	1.60	0.103
EE06	18	0.062	1.60	0.039
EE07	18	0.013	1.60	0.008
EE08	18	0.026	1.60	0.016
EE09	18	0.036	1.60	0.023
EE10	18	0.027	1.60	0.017
EW01	18	0.023	1.60	0.014
EW02	18	0.016	1.60	0.010
EW03	18	0.011	1.60	0.007
Unused	18	0.000	1.60	0.000
Unused	18	0.000	1.60	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-340
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Cadmium

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.743	0.000	2.500
EE02	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.260	0.000	2.500
EE03	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	4.620	0.000	2.500
EE04	0.303	8.000	0.350	0.350	0.011	0.011	0.011	0.011	0.000	2.880	0.000	0.360
EE05	8.252	8.000	9.516	9.516	0.302	0.302	0.302	0.302	0.000	160.680	0.000	9.800
EE06	0.926	8.000	1.068	1.068	0.034	0.034	0.034	0.034	0.000	69.520	0.000	1.100
EE07	1.010	2.300	1.165	1.165	0.037	0.037	0.037	0.037	0.000	5.751	0.000	1.200
EE08	0.842	3.500	0.971	0.971	0.031	0.031	0.031	0.031	0.000	18.468	0.000	1.000
EE09	0.842	4.800	0.971	0.971	0.031	0.031	0.031	0.031	0.000	22.796	0.000	1.000
EE10	0.926	4.800	1.068	1.068	0.034	0.034	0.034	0.034	0.000	20.670	0.000	1.100
EW01	0.303	3.300	0.350	0.350	0.011	0.011	0.011	0.011	0.000	27.846	0.000	0.360
EW02	2.021	3.300	2.330	2.330	0.074	0.074	0.074	0.074	0.000	3.198	0.000	2.400
EW03	0.842	3.400	0.971	0.971	0.031	0.031	0.031	0.031	0.000	1.848	0.000	1.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS			
BASED ON UCL (or max) CONCENTRATIONS			
LOCATION	Area Use Factor	Applied Daily Dose	HAZARD QUOTIENT
EE01	18	0.021	0.16
EE02	18	0.021	0.16
EE03	18	0.024	0.16
EE04	18	0.027	0.16
EE05	18	0.205	0.16
EE06	18	0.087	0.16
EE07	18	0.017	0.16
EE08	18	0.030	0.16
EE09	18	0.038	0.16
EE10	18	0.036	0.16
EW01	18	0.035	0.16
EW02	18	0.023	0.16
EW03	18	0.016	0.16
Unused	18	0.000	0.16
Unused	18	0.000	0.16

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-341
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Cadmium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.743	0.000	2.500
EE02	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	1.260	0.000	2.500
EE03	2.105	2.900	2.428	2.428	0.077	0.077	0.077	0.077	0.000	4.620	0.000	2.500
EE04	0.303	8.000	0.350	0.350	0.011	0.011	0.011	0.011	0.000	2.880	0.000	0.350
EE05	8.252	8.000	9.516	9.516	0.302	0.302	0.302	0.302	0.000	160.680	0.000	9.800
EE06	0.926	8.000	1.068	1.068	0.034	0.034	0.034	0.034	0.000	69.520	0.000	1.100
EE07	1.010	2.300	1.165	1.165	0.037	0.037	0.037	0.037	0.000	5.751	0.000	1.200
EE08	0.842	3.500	0.971	0.971	0.031	0.031	0.031	0.031	0.000	18.468	0.000	1.000
EE09	0.842	4.800	0.971	0.971	0.031	0.031	0.031	0.031	0.000	22.796	0.000	1.000
EE10	0.926	4.800	1.068	1.068	0.034	0.034	0.034	0.034	0.000	20.670	0.000	1.100
EW01	0.303	3.300	0.350	0.350	0.011	0.011	0.011	0.011	0.000	27.846	0.000	0.350
EW02	2.021	3.300	2.330	2.330	0.074	0.074	0.074	0.074	0.000	3.198	0.000	2.400
EW03	0.842	3.400	0.971	0.971	0.031	0.031	0.031	0.031	0.000	1.848	0.000	1.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.021	1.60	0.013
EE02	18	0.021	1.60	0.013
EE03	18	0.024	1.60	0.015
EE04	18	0.027	1.60	0.017
EE05	18	0.205	1.60	0.128
EE06	18	0.087	1.60	0.055
EE07	18	0.017	1.60	0.011
EE08	18	0.030	1.60	0.019
EE09	18	0.038	1.60	0.024
EE10	18	0.036	1.60	0.023
EW01	18	0.035	1.60	0.022
EW02	18	0.023	1.60	0.014
EW03	18	0.016	1.60	0.010
Unused	18	0.000	1.60	0.000
Unused	18	0.000	1.60	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-342
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Raccoon exposed to Cadmium

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	30.23	44.86	0.00	13.76	0.15	0.15	0.06	0.15	0.00	10.50	0.00	0.15
EE02	34.82	43.40	0.00	15.85	0.17	0.17	0.07	0.17	0.00	5.17	0.00	0.18
EE03	30.44	37.71	0.00	13.86	0.15	0.15	0.06	0.15	0.00	17.35	0.00	0.15
EE04	4.28	83.92	0.00	1.95	0.02	0.02	0.01	0.02	0.00	9.76	0.00	0.02
EE05	15.47	12.06	0.00	7.04	0.07	0.07	0.03	0.07	0.00	65.10	0.00	0.08
EE06	4.31	31.70	0.00	1.96	0.02	0.02	0.01	0.02	0.00	61.94	0.00	0.02
EE07	23.01	38.61	0.00	10.47	0.11	0.11	0.04	0.11	0.00	27.41	0.00	0.12
EE08	10.24	39.30	0.00	4.66	0.05	0.05	0.02	0.05	0.00	45.59	0.00	0.05
EE09	7.41	36.33	0.00	3.37	0.04	0.04	0.01	0.04	0.00	52.73	0.00	0.04
EE10	10.42	49.10	0.00	4.74	0.05	0.05	0.02	0.05	0.00	35.52	0.00	0.05
EW01	4.27	33.45	0.00	1.95	0.02	0.02	0.01	0.02	0.00	60.24	0.00	0.02
EW02	25.89	46.26	0.00	11.79	0.12	0.12	0.05	0.12	0.00	15.51	0.00	0.13
EW03	17.57	66.16	0.00	8.00	0.08	0.08	0.03	0.08	0.00	7.89	0.00	0.09
Average	16.80	43.30	0.00	7.65	0.08	0.08	0.03	0.08	0.00	31.90	0.00	0.08

**TABLE I-343
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Chromium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	20,000	2,730	10,000	10,000	1,000	1,000	1,000	1,000	0.000	12,068	0.000	5,000
EE02	41,000	2,730	20,500	20,500	2,050	2,050	2,050	2,050	0.000	42,602	0.000	10,250
EE03	27,200	2,730	13,600	13,600	1,360	1,360	1,360	1,360	0.000	25,580	0.000	6,800
EE04	22,600	2,870	11,300	11,300	1,130	1,130	1,130	1,130	0.000	58,514	0.000	5,650
EE05	54,000	2,870	27,000	27,000	2,700	2,700	2,700	2,700	0.000	537,640	0.000	13,500
EE06	20,000	2,870	10,000	10,000	1,000	1,000	1,000	1,000	0.000	345,050	0.000	5,000
EE07	22,200	3,800	11,100	11,100	1,110	1,110	1,110	1,110	0.000	52,200	0.000	5,550
EE08	126,000	4,900	63,000	63,000	6,300	6,300	6,300	6,300	0.000	88,589	0.000	31,500
EE09	90,000	3,670	45,000	45,000	4,500	4,500	4,500	4,500	0.000	186,945	0.000	22,500
EE10	54,000	3,670	27,000	27,000	2,700	2,700	2,700	2,700	0.000	109,254	0.000	13,500
EW01	20,000	1,560	10,000	10,000	1,000	1,000	1,000	1,000	0.000	158,210	0.000	5,000
EW02	23,200	1,560	11,600	11,600	1,160	1,160	1,160	1,160	0.000	54,100	0.000	5,800
EW03	20,000	1,357	10,000	10,000	1,000	1,000	1,000	1,000	0.000	29,494	0.000	5,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.107	0.30	0.356
EE02	18	0.226	0.30	0.754
EE03	18	0.150	0.30	0.501
EE04	18	0.159	0.30	0.529
EE05	18	0.708	0.30	2.362
EE06	18	0.393	0.30	1.309
EE07	18	0.154	0.30	0.514
EE08	18	0.649	0.30	2.162
EE09	18	0.570	0.30	1.899
EE10	18	0.344	0.30	1.145
EW01	18	0.229	0.30	0.763
EW02	18	0.154	0.30	0.512
EW03	18	0.118	0.30	0.393
Unused	18	0.000	0.30	0.000
Unused	18	0.000	0.30	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-344
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Chromium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	20,000	2,730	10,000	10,000	1,000	1,000	1,000	1,000	0.000	12,068	0.000	5,000
EE02	41,000	2,730	20,500	20,500	2,050	2,050	2,050	2,050	0.000	42,602	0.000	10,250
EE03	27,200	2,730	13,600	13,600	1,360	1,360	1,360	1,360	0.000	25,580	0.000	6,800
EE04	22,600	2,870	11,300	11,300	1,130	1,130	1,130	1,130	0.000	58,514	0.000	5,650
EE05	54,000	2,870	27,000	27,000	2,700	2,700	2,700	2,700	0.000	537,640	0.000	13,500
EE06	20,000	2,870	10,000	10,000	1,000	1,000	1,000	1,000	0.000	345,050	0.000	5,000
EE07	22,200	3,800	11,100	11,100	1,110	1,110	1,110	1,110	0.000	52,200	0.000	5,550
EE08	126,000	4,900	63,000	63,000	6,300	6,300	6,300	6,300	0.000	88,589	0.000	31,500
EE09	90,000	3,670	45,000	45,000	4,500	4,500	4,500	4,500	0.000	186,945	0.000	22,500
EE10	54,000	3,670	27,000	27,000	2,700	2,700	2,700	2,700	0.000	109,254	0.000	13,500
EW01	20,000	1,560	10,000	10,000	1,000	1,000	1,000	1,000	0.000	158,210	0.000	5,000
EW02	23,200	1,560	11,600	11,600	1,160	1,160	1,160	1,160	0.000	54,100	0.000	5,800
EW03	20,000	1,357	10,000	10,000	1,000	1,000	1,000	1,000	0.000	29,494	0.000	5,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.107	3.00	0.036
EE02	18	0.226	3.00	0.075
EE03	18	0.150	3.00	0.050
EE04	18	0.159	3.00	0.053
EE05	18	0.708	3.00	0.236
EE06	18	0.393	3.00	0.131
EE07	18	0.154	3.00	0.051
EE08	18	0.649	3.00	0.216
EE09	18	0.370	3.00	0.190
EE10	18	0.344	3.00	0.115
EW01	18	0.229	3.00	0.076
EW02	18	0.154	3.00	0.051
EW03	18	0.118	3.00	0.039
Unused	18	0.000	3.00	0.000
Unused	18	0.000	3.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-345
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Chromium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	20,000	3,100	10,000	10,000	1,000	1,000	1,000	1,000	0.000	16,500	0.000	5,000
EE02	48,000	3,100	24,000	24,000	2,400	2,400	2,400	2,400	0.000	64,372	0.000	12,000
EE03	34,400	3,100	17,200	17,200	1,720	1,720	1,720	1,720	0.000	25,704	0.000	8,600
EE04	25,200	3,600	12,600	12,600	1,260	1,260	1,260	1,260	0.000	86,400	0.000	6,300
EE05	88,000	3,600	44,000	44,000	4,400	4,400	4,400	4,400	0.000	584,220	0.000	22,000
EE06	20,000	3,600	10,000	10,000	1,000	1,000	1,000	1,000	0.000	563,200	0.000	5,000
EE07	24,400	4,100	12,200	12,200	1,220	1,220	1,220	1,220	0.000	89,460	0.000	6,100
EE08	168,000	4,900	84,000	84,000	8,400	8,400	8,400	8,400	0.000	146,610	0.000	42,000
EE09	132,000	4,000	66,000	66,000	6,600	6,600	6,600	6,600	0.000	238,620	0.000	33,000
EE10	64,000	4,000	32,000	32,000	3,200	3,200	3,200	3,200	0.000	202,800	0.000	16,000
EW01	20,000	2,700	10,000	10,000	1,000	1,000	1,000	1,000	0.000	272,580	0.000	5,000
EW02	26,400	2,700	13,200	13,200	1,320	1,320	1,320	1,320	0.000	70,725	0.000	6,600
EW03	20,000	2,300	10,000	10,000	1,000	1,000	1,000	1,000	0.000	33,292	0.000	5,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.112	0.30	0.372
EE02	18	0.277	0.30	0.923
EE03	18	0.183	0.30	0.611
EE04	18	0.196	0.30	0.654
EE05	18	0.901	0.30	3.004
EE06	18	0.582	0.30	1.939
EE07	18	0.197	0.30	0.655
EE08	18	0.885	0.30	2.949
EE09	18	0.801	0.30	2.671
EE10	18	0.469	0.30	1.563
EW01	18	0.330	0.30	1.100
EW02	18	0.185	0.30	0.618
EW03	18	0.124	0.30	0.413
Unused	18	0.000	0.30	0.000
Unused	18	0.000	0.30	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-346
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Chromium**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	20,000	3,100	10,000	10,000	1,000	1,000	1,000	1,000	0.000	16,500	0.000	5,000
EE02	48,000	3,100	24,000	24,000	2,400	2,400	2,400	2,400	0.000	64,372	0.000	12,000
EE03	34,400	3,100	17,200	17,200	1,720	1,720	1,720	1,720	0.000	25,704	0.000	8,600
EE04	25,200	3,600	12,600	12,600	1,260	1,260	1,260	1,260	0.000	86,400	0.000	6,300
EE05	88,000	3,600	44,000	44,000	4,400	4,400	4,400	4,400	0.000	584,220	0.000	22,000
EE06	20,000	3,600	10,000	10,000	1,000	1,000	1,000	1,000	0.000	563,200	0.000	5,000
EE07	24,400	4,100	12,200	12,200	1,220	1,220	1,220	1,220	0.000	89,460	0.000	6,100
EE08	168,000	4,900	84,000	84,000	8,400	8,400	8,400	8,400	0.000	146,610	0.000	42,000
EE09	132,000	4,000	66,000	66,000	6,600	6,600	6,600	6,600	0.000	238,620	0.000	33,000
EE10	64,000	4,000	32,000	32,000	3,200	3,200	3,200	3,200	0.000	202,800	0.000	16,000
EW01	20,000	2,700	10,000	10,000	1,000	1,000	1,000	1,000	0.000	272,580	0.000	5,000
EW02	26,400	2,700	13,200	13,200	1,320	1,320	1,320	1,320	0.000	70,725	0.000	6,600
EW03	20,000	2,300	10,000	10,000	1,000	1,000	1,000	1,000	0.000	33,292	0.000	5,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.112	3.00	0.037
EE02	18	0.277	3.00	0.092
EE03	18	0.183	3.00	0.061
EE04	18	0.196	3.00	0.065
EE05	18	0.901	3.00	0.300
EE06	18	0.582	3.00	0.194
EE07	18	0.197	3.00	0.066
EE08	18	0.885	3.00	0.295
EE09	18	0.801	3.00	0.267
EE10	18	0.469	3.00	0.156
EW01	18	0.330	3.00	0.110
EW02	18	0.185	3.00	0.062
EW03	18	0.124	3.00	0.041
Unused	18	0.000	3.00	0.000
Unused	18	0.000	3.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-347
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Raccoon exposed to Chromium

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	67.98	7.33	0.00	13.42	0.45	0.45	0.18	0.45	0.00	9.68	0.00	0.07
EE02	65.85	3.46	0.00	13.00	0.43	0.43	0.17	0.43	0.00	16.15	0.00	0.07
EE03	65.70	5.21	0.00	12.97	0.43	0.43	0.17	0.43	0.00	14.58	0.00	0.07
EE04	51.76	5.19	0.00	10.22	0.34	0.34	0.14	0.34	0.00	31.63	0.00	0.05
EE05	27.68	1.16	0.00	5.46	0.18	0.18	0.07	0.18	0.00	65.05	0.00	0.03
EE06	18.50	2.10	0.00	3.65	0.12	0.12	0.05	0.12	0.00	75.32	0.00	0.02
EE07	52.33	7.07	0.00	10.33	0.34	0.34	0.14	0.34	0.00	29.04	0.00	0.06
EE08	70.55	2.17	0.00	13.92	0.46	0.46	0.19	0.46	0.00	11.71	0.00	0.07
EE09	57.36	1.85	0.00	11.32	0.38	0.38	0.15	0.38	0.00	28.12	0.00	0.06
EE10	57.08	3.06	0.00	11.27	0.38	0.38	0.15	0.38	0.00	27.26	0.00	0.06
EW01	31.75	1.96	0.00	6.27	0.21	0.21	0.08	0.21	0.00	59.28	0.00	0.03
EW02	54.82	2.91	0.00	10.82	0.36	0.36	0.14	0.36	0.00	30.17	0.00	0.06
EW03	61.64	3.30	0.00	12.17	0.41	0.41	0.16	0.41	0.00	21.45	0.00	0.07
Average	52.54	3.60	0.00	10.37	0.35	0.35	0.14	0.35	0.00	32.26	0.00	0.06

**TABLE I-348
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Cobalt**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.748	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.683	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.321	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.750	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.454	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	7.361	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.344	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.420	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.954	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.945	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	35.860	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.351	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.266	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.014	0.13	0.110
EE02	18	0.014	0.13	0.109
EE03	18	0.013	0.13	0.100
EE04	18	0.013	0.13	0.103
EE05	18	0.017	0.13	0.134
EE06	18	0.018	0.13	0.140
EE07	18	0.015	0.13	0.114
EE08	18	0.015	0.13	0.114
EE09	18	0.015	0.13	0.118
EE10	18	0.015	0.13	0.118
EW01	18	0.042	0.13	0.324
EW02	18	0.014	0.13	0.109
EW03	18	0.015	0.13	0.115
Unused	18	0.000	0.13	0.000
Unused	18	0.000	0.13	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-349
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Cobalt

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.748	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.683	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.321	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.750	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.454	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	7.361	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.344	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.420	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.954	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.945	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	35.860	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.351	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.266	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.014	1.30	0.011
EE02	18	0.014	1.30	0.011
EE03	18	0.013	1.30	0.010
EE04	18	0.013	1.30	0.010
EE05	18	0.017	1.30	0.013
EE06	18	0.018	1.30	0.014
EE07	18	0.015	1.30	0.011
EE08	18	0.015	1.30	0.011
EE09	18	0.015	1.30	0.012
EE10	18	0.015	1.30	0.012
EW01	18	0.042	1.30	0.032
EW02	18	0.014	1.30	0.011
EW03	18	0.015	1.30	0.012
Unused	18	0.000	1.30	0.000
Unused	18	0.000	1.30	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-350
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Cobalt**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.500	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.888	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.634	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.840	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.630	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	8.800	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	5.609	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.519	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.100	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.446	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	56.280	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.730	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.072	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.016	0.13	0.121
EE02	18	0.014	0.13	0.111
EE03	18	0.013	0.13	0.102
EE04	18	0.013	0.13	0.104
EE05	18	0.018	0.13	0.135
EE06	18	0.019	0.13	0.150
EE07	18	0.017	0.13	0.129
EE08	18	0.015	0.13	0.115
EE09	18	0.015	0.13	0.119
EE10	18	0.016	0.13	0.121
EW01	18	0.060	0.13	0.438
EW02	18	0.015	0.13	0.112
EW03	18	0.017	0.13	0.127
Unused	18	0.000	0.13	0.000
Unused	18	0.000	0.13	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-351
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
 for Raccoon exposed to Cobalt

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.500	0.000	5.000
EE02	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	2.888	0.000	5.000
EE03	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.634	0.000	5.000
EE04	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	1.840	0.000	5.000
EE05	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.630	0.000	5.000
EE06	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	8.800	0.000	5.000
EE07	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	5.609	0.000	5.000
EE08	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.519	0.000	5.000
EE09	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.100	0.000	5.000
EE10	0.300	1.200	5.000	5.000	0.079	0.079	0.079	0.079	0.000	4.446	0.000	5.000
EW01	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	56.280	0.000	5.000
EW02	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	3.750	0.000	5.000
EW03	0.300	1.000	5.000	5.000	0.079	0.079	0.079	0.079	0.000	6.072	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.016	1.30	0.012
EE02	18	0.014	1.30	0.011
EE03	18	0.013	1.30	0.010
EE04	18	0.013	1.30	0.010
EE05	18	0.018	1.30	0.014
EE06	18	0.019	1.30	0.015
EE07	18	0.017	1.30	0.013
EE08	18	0.015	1.30	0.011
EE09	18	0.015	1.30	0.012
EE10	18	0.016	1.30	0.012
EW01	18	0.060	1.30	0.046
EW02	18	0.015	1.30	0.011
EW03	18	0.017	1.30	0.013
Unused	18	0.000	1.30	0.000
Unused	18	0.000	1.30	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-352
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Raccoon exposed to Cobalt

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	7.64	24.13	0.00	50.27	0.26	0.26	0.11	0.26	0.00	16.52	0.00	0.54
EE02	7.67	24.23	0.00	50.47	0.26	0.26	0.11	0.26	0.00	16.19	0.00	0.54
EE03	8.36	26.40	0.00	54.99	0.29	0.29	0.12	0.29	0.00	8.69	0.00	0.59
EE04	8.13	25.67	0.00	53.48	0.28	0.28	0.11	0.28	0.00	11.19	0.00	0.58
EE05	6.25	19.73	0.00	41.11	0.22	0.22	0.09	0.22	0.00	31.73	0.00	0.44
EE06	5.98	18.89	0.00	39.36	0.21	0.21	0.08	0.21	0.00	34.64	0.00	0.42
EE07	7.38	23.30	0.00	48.53	0.25	0.25	0.10	0.25	0.00	19.41	0.00	0.52
EE08	7.34	23.19	0.00	48.32	0.25	0.25	0.10	0.25	0.00	19.76	0.00	0.52
EE09	7.13	22.50	0.00	46.88	0.25	0.25	0.10	0.25	0.00	22.16	0.00	0.50
EE10	7.13	22.51	0.00	46.90	0.25	0.25	0.10	0.25	0.00	22.12	0.00	0.50
EW01	2.59	6.82	0.00	17.04	0.09	0.09	0.04	0.09	0.00	73.07	0.00	0.18
EW02	7.67	20.19	0.00	50.47	0.26	0.26	0.11	0.26	0.00	20.23	0.00	0.54
EW03	7.27	19.13	0.00	47.83	0.25	0.25	0.10	0.25	0.00	24.40	0.00	0.51
Average	6.96	21.28	0.00	45.82	0.24	0.24	0.10	0.24	0.00	24.62	0.00	0.49

TABLE I-353
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Cyanide

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.000	0.250	0.000	0.000	0.008	0.008	0.008	0.008	0.000	0.127	0.000	2.503
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	2.848	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.001	4.70	0.000
EE02	18	0.001	4.70	0.000
EE03	18	0.001	4.70	0.000
EE04	18	0.001	4.70	0.000
EE05	18	0.003	4.70	0.001
EE06	18	0.001	4.70	0.000
EE07	18	0.001	4.70	0.000
EE08	18	0.001	4.70	0.000
EE09	18	0.001	4.70	0.000
EE10	18	0.001	4.70	0.000
EW01	18	0.001	4.70	0.000
EW02	18	0.001	4.70	0.000
EW03	18	0.001	4.70	0.000
Unused	18	0.000	4.70	0.000
Unused	18	0.000	4.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-354
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Cyanide

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.000	0.250	0.000	0.000	0.008	0.008	0.008	0.008	0.000	0.127	0.000	2.503
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	2.848	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.250	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.001	4.70	0.000
EE02	18	0.001	4.70	0.000
EE03	18	0.001	4.70	0.000
EE04	18	0.001	4.70	0.000
EE05	18	0.003	4.70	0.001
EE06	18	0.001	4.70	0.000
EE07	18	0.001	4.70	0.000
EE08	18	0.001	4.70	0.000
EE09	18	0.001	4.70	0.000
EE10	18	0.001	4.70	0.000
EW01	18	0.001	4.70	0.000
EW02	18	0.001	4.70	0.000
EW03	18	0.001	4.70	0.000
Unused	18	0.000	4.70	0.000
Unused	18	0.000	4.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-355
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Cyanide**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	4.836	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.259	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.001	4.70	0.000
EE02	18	0.001	4.70	0.000
EE03	18	0.001	4.70	0.000
EE04	18	0.001	4.70	0.000
EE05	18	0.005	4.70	0.001
EE06	18	0.001	4.70	0.000
EE07	18	0.001	4.70	0.000
EE08	18	0.001	4.70	0.000
EE09	18	0.001	4.70	0.000
EE10	18	0.001	4.70	0.000
EW01	18	0.001	4.70	0.000
EW02	18	0.001	4.70	0.000
EW03	18	0.001	4.70	0.000
Unused	18	0.000	4.70	0.000
Unused	18	0.000	4.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-356
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Cyanide**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE04	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.249	0.000	5.000
EE05	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	4.836	0.000	5.000
EE06	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.259	0.000	5.000
EE07	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.253	0.000	5.000
EE08	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EE09	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EE10	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW01	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.252	0.000	5.000
EW02	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
EW03	0.000	0.250	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.251	0.000	5.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.001	4.70	0.000
EE02	18	0.001	4.70	0.000
EE03	18	0.001	4.70	0.000
EE04	18	0.001	4.70	0.000
EE05	18	0.005	4.70	0.001
EE06	18	0.001	4.70	0.000
EE07	18	0.001	4.70	0.000
EE08	18	0.001	4.70	0.000
EE09	18	0.001	4.70	0.000
EE10	18	0.001	4.70	0.000
EW01	18	0.001	4.70	0.000
EW02	18	0.001	4.70	0.000
EW03	18	0.001	4.70	0.000
Unused	18	0.000	4.70	0.000
Unused	18	0.000	4.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-357
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Raccoon exposed to Cyanide

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.00	81.80	0.00	0.00	0.41	0.41	0.16	0.41	0.00	12.40	0.00	4.41
EE02	0.00	69.46	0.00	0.00	0.69	0.69	0.28	0.69	0.00	20.71	0.00	7.48
EE03	0.00	69.50	0.00	0.00	0.69	0.69	0.28	0.69	0.00	20.66	0.00	7.48
EE04	0.00	69.50	0.00	0.00	0.70	0.70	0.28	0.70	0.00	20.65	0.00	7.48
EE05	0.00	21.99	0.00	0.00	0.22	0.22	0.09	0.22	0.00	74.89	0.00	2.37
EE06	0.00	69.40	0.00	0.00	0.69	0.69	0.28	0.69	0.00	20.77	0.00	7.47
EE07	0.00	69.27	0.00	0.00	0.69	0.69	0.28	0.69	0.00	20.92	0.00	7.45
EE08	0.00	69.45	0.00	0.00	0.69	0.69	0.28	0.69	0.00	20.72	0.00	7.47
EE09	0.00	69.38	0.00	0.00	0.69	0.69	0.28	0.69	0.00	20.79	0.00	7.47
EE10	0.00	69.37	0.00	0.00	0.69	0.69	0.28	0.69	0.00	20.80	0.00	7.47
EW01	0.00	69.30	0.00	0.00	0.69	0.69	0.28	0.69	0.00	20.88	0.00	7.46
EW02	0.00	69.38	0.00	0.00	0.69	0.69	0.28	0.69	0.00	20.80	0.00	7.47
EW03	0.00	69.39	0.00	0.00	0.69	0.69	0.28	0.69	0.00	20.78	0.00	7.47
Average	0.00	66.71	0.00	0.00	0.64	0.64	0.25	0.64	0.00	24.29	0.00	6.84

TABLE I-358
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Lead

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	4.121	1.640	2.538	2.538	0.029	0.029	0.029	0.029	0.000	19.863	0.000	1.900
EE02	28.197	1.640	17.368	17.368	0.196	0.196	0.196	0.196	0.000	15.070	0.000	13.000
EE03	4.761	1.640	2.933	2.933	0.033	0.033	0.033	0.033	0.000	12.041	0.000	2.195
EE04	3.145	3.940	1.937	1.937	0.022	0.022	0.022	0.022	0.000	112.484	0.000	1.450
EE05	7.917	3.940	4.876	4.876	0.055	0.055	0.055	0.055	0.000	94.793	0.000	3.650
EE06	35.463	3.940	21.844	21.844	0.247	0.247	0.247	0.247	0.000	72.095	0.000	16.350
EE07	6.615	1.700	4.075	4.075	0.046	0.046	0.046	0.046	0.000	7.305	0.000	3.050
EE08	4.772	2.300	2.939	2.939	0.033	0.033	0.033	0.033	0.000	13.223	0.000	2.200
EE09	10.520	1.650	6.480	6.480	0.073	0.073	0.073	0.073	0.000	56.685	0.000	4.850
EE10	4.880	1.650	3.006	3.006	0.034	0.034	0.034	0.034	0.000	16.278	0.000	2.250
EW01	4.555	0.840	2.806	2.806	0.032	0.032	0.032	0.032	0.000	73.370	0.000	2.100
EW02	27.958	0.840	17.221	17.221	0.195	0.195	0.195	0.195	0.000	34.704	0.000	12.890
EW03	3.199	1.183	1.971	1.971	0.022	0.022	0.022	0.022	0.000	10.819	0.000	1.475
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.040	15.00	0.003
EE02	18	0.145	15.00	0.010
EE03	18	0.037	15.00	0.002
EE04	18	0.122	15.00	0.008
EE05	18	0.128	15.00	0.009
EE06	18	0.234	15.00	0.016
EE07	18	0.041	15.00	0.003
EE08	18	0.040	15.00	0.003
EE09	18	0.101	15.00	0.007
EE10	18	0.041	15.00	0.003
EW01	18	0.086	15.00	0.006
EW02	18	0.159	15.00	0.011
EW03	18	0.027	15.00	0.002
Unused	18	0.000	15.00	0.000
Unused	18	0.000	15.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-359
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Lead

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	4.121	1.640	2.538	2.538	0.029	0.029	0.029	0.029	0.000	19.863	0.000	1.900
EE02	28.197	1.640	17.368	17.368	0.196	0.196	0.196	0.196	0.000	15.070	0.000	13.000
EE03	4.761	1.640	2.933	2.933	0.033	0.033	0.033	0.033	0.000	12.041	0.000	2.195
EE04	3.145	3.940	1.937	1.937	0.022	0.022	0.022	0.022	0.000	112.484	0.000	1.450
EE05	7.917	3.940	4.876	4.876	0.055	0.055	0.055	0.055	0.000	94.793	0.000	3.650
EE06	35.463	3.940	21.844	21.844	0.247	0.247	0.247	0.247	0.000	72.095	0.000	16.350
EE07	6.615	1.700	4.075	4.075	0.046	0.046	0.046	0.046	0.000	7.305	0.000	3.050
EE08	4.772	2.300	2.939	2.939	0.033	0.033	0.033	0.033	0.000	13.223	0.000	2.200
EE09	10.520	1.630	6.480	6.480	0.073	0.073	0.073	0.073	0.000	56.685	0.000	4.850
EE10	4.880	1.630	3.006	3.006	0.034	0.034	0.034	0.034	0.000	16.278	0.000	2.250
EW01	4.555	0.840	2.806	2.806	0.032	0.032	0.032	0.032	0.000	73.370	0.000	2.100
EW02	27.958	0.840	17.221	17.221	0.195	0.195	0.195	0.195	0.000	34.704	0.000	12.890
EW03	3.199	1.183	1.971	1.971	0.022	0.022	0.022	0.022	0.000	10.819	0.000	1.475
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.040	150.00	0.000
EE02	18	0.145	150.00	0.001
EE03	18	0.037	150.00	0.000
EE04	18	0.122	150.00	0.001
EE05	18	0.128	150.00	0.001
EE06	18	0.234	150.00	0.002
EE07	18	0.041	150.00	0.000
EE08	18	0.040	150.00	0.000
EE09	18	0.101	150.00	0.001
EE10	18	0.041	150.00	0.000
EW01	18	0.086	150.00	0.001
EW02	18	0.159	150.00	0.001
EW03	18	0.027	150.00	0.000
Unused	18	0.000	150.00	0.000
Unused	18	0.000	150.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-360
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Lead

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	5.856	2.100	3.607	3.607	0.041	0.041	0.041	0.041	0.000	25.200	0.000	2.700
EE02	52.056	2.100	32.064	32.064	0.362	0.362	0.362	0.362	0.000	17.708	0.000	24.000
EE03	7.592	2.100	4.676	4.676	0.053	0.053	0.053	0.053	0.000	21.588	0.000	3.500
EE04	4.338	5.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	196.000	0.000	2.000
EE05	14.749	5.600	9.085	9.085	0.103	0.103	0.103	0.103	0.000	106.080	0.000	6.800
EE06	65.070	5.600	40.080	40.080	0.453	0.453	0.453	0.453	0.000	91.080	0.000	30.000
EE07	6.941	2.500	4.275	4.275	0.048	0.048	0.048	0.048	0.000	10.792	0.000	3.200
EE08	4.989	2.300	3.073	3.073	0.035	0.035	0.035	0.035	0.000	17.820	0.000	2.300
EE09	16.484	2.000	10.154	10.154	0.115	0.115	0.115	0.115	0.000	63.960	0.000	7.600
EE10	4.989	2.000	3.073	3.073	0.035	0.035	0.035	0.035	0.000	23.400	0.000	2.300
EW01	4.772	0.910	2.939	2.939	0.033	0.033	0.033	0.033	0.000	119.700	0.000	2.200
EW02	54.225	0.910	33.400	33.400	0.378	0.378	0.378	0.378	0.000	51.450	0.000	25.000
EW03	4.338	1.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	15.488	0.000	2.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.054	15.00	0.004
EE02	18	0.257	15.00	0.017
EE03	18	0.059	15.00	0.004
EE04	18	0.204	15.00	0.014
EE05	18	0.174	15.00	0.012
EE06	18	0.389	15.00	0.026
EE07	18	0.048	15.00	0.003
EE08	18	0.044	15.00	0.003
EE09	18	0.135	15.00	0.009
EE10	18	0.048	15.00	0.003
EW01	18	0.127	15.00	0.008
EW02	18	0.293	15.00	0.020
EW03	18	0.038	15.00	0.003
Unused	18	0.000	15.00	0.000
Unused	18	0.000	15.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

**TABLE I-361
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Lead**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	5.856	2.100	3.607	3.607	0.041	0.041	0.041	0.041	0.000	23.200	0.000	2.700
EE02	52.056	2.100	32.064	32.064	0.362	0.362	0.362	0.362	0.000	17.708	0.000	24.000
EE03	7.592	2.100	4.676	4.676	0.053	0.053	0.053	0.053	0.000	21.588	0.000	3.500
EE04	4.338	5.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	196.000	0.000	2.000
EE05	14.749	5.600	9.085	9.085	0.103	0.103	0.103	0.103	0.000	106.080	0.000	6.800
EE06	65.070	5.600	40.080	40.080	0.453	0.453	0.453	0.453	0.000	91.080	0.000	30.000
EE07	6.941	2.500	4.275	4.275	0.048	0.048	0.048	0.048	0.000	10.792	0.000	3.200
EE08	4.989	2.300	3.073	3.073	0.035	0.035	0.035	0.035	0.000	17.820	0.000	2.300
EE09	16.484	2.000	10.154	10.154	0.115	0.115	0.115	0.115	0.000	63.960	0.000	7.600
EE10	4.989	2.000	3.073	3.073	0.035	0.035	0.035	0.035	0.000	23.400	0.000	2.300
EW01	4.772	0.910	2.939	2.939	0.033	0.033	0.033	0.033	0.000	119.700	0.000	2.200
EW02	54.225	0.910	33.400	33.400	0.378	0.378	0.378	0.378	0.000	51.450	0.000	25.000
EW03	4.338	1.600	2.672	2.672	0.030	0.030	0.030	0.030	0.000	15.488	0.000	2.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.054	150.00	0.000
EE02	18	0.257	150.00	0.002
EE03	18	0.059	150.00	0.000
EE04	18	0.204	150.00	0.001
EE05	18	0.174	150.00	0.001
EE06	18	0.389	150.00	0.003
EE07	18	0.048	150.00	0.000
EE08	18	0.044	150.00	0.000
EE09	18	0.135	150.00	0.001
EE10	18	0.048	150.00	0.000
EW01	18	0.127	150.00	0.001
EW02	18	0.293	150.00	0.002
EW03	18	0.038	150.00	0.000
Unused	18	0.000	150.00	0.000
Unused	18	0.000	150.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-362
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Raccoon exposed to Lead

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	37.04	11.64	0.00	9.01	0.03	0.03	0.01	0.03	0.00	42.13	0.00	0.07
EE02	70.41	3.23	0.00	17.12	0.06	0.06	0.03	0.06	0.00	8.88	0.00	0.14
EE03	47.24	12.85	0.00	11.48	0.04	0.04	0.02	0.04	0.00	28.20	0.00	0.09
EE04	9.36	9.26	0.00	2.28	0.01	0.01	0.00	0.01	0.00	79.05	0.00	0.02
EE05	22.39	8.80	0.00	5.44	0.02	0.02	0.01	0.02	0.00	63.26	0.00	0.04
EE06	55.07	4.83	0.00	13.39	0.05	0.05	0.02	0.05	0.00	26.43	0.00	0.11
EE07	58.42	11.85	0.00	14.20	0.05	0.05	0.02	0.05	0.00	15.23	0.00	0.11
EE08	43.81	16.67	0.00	10.65	0.04	0.04	0.02	0.04	0.00	28.65	0.00	0.09
EE09	37.85	4.63	0.00	9.20	0.03	0.03	0.01	0.03	0.00	48.13	0.00	0.07
EE10	43.49	11.47	0.00	10.58	0.04	0.04	0.02	0.04	0.00	34.24	0.00	0.09
EW01	19.25	2.80	0.00	4.68	0.02	0.02	0.01	0.02	0.00	73.17	0.00	0.04
EW02	63.90	1.52	0.00	15.54	0.06	0.06	0.02	0.06	0.00	18.72	0.00	0.13
EW03	42.77	12.48	0.00	10.40	0.04	0.04	0.02	0.04	0.00	34.13	0.00	0.08
Average	42.38	8.62	0.00	10.31	0.04	0.04	0.02	0.04	0.00	38.48	0.00	0.08

TABLE I-363
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Mercury

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.110	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.410	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.118	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.272	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.223	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.062	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.092	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.015	0.01	2.181
EE02	18	0.016	0.01	2.217
EE03	18	0.015	0.01	2.182
EE04	18	0.015	0.01	2.173
EE05	18	0.015	0.01	2.200
EE06	18	0.015	0.01	2.195
EE07	18	0.015	0.01	2.173
EE08	18	0.015	0.01	2.175
EE09	18	0.015	0.01	2.173
EE10	18	0.015	0.01	2.178
EW01	18	0.015	0.01	2.195
EW02	18	0.015	0.01	2.173
EW03	18	0.015	0.01	2.173
Unused	18	0.000	0.01	0.000
Unused	18	0.000	0.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-364
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Mercury**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.110	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.410	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.118	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.272	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.223	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.062	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.092	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.015	0.07	0.218
EE02	18	0.016	0.07	0.222
EE03	18	0.015	0.07	0.218
EE04	18	0.015	0.07	0.217
EE05	18	0.015	0.07	0.220
EE06	18	0.015	0.07	0.219
EE07	18	0.015	0.07	0.217
EE08	18	0.015	0.07	0.217
EE09	18	0.015	0.07	0.217
EE10	18	0.015	0.07	0.218
EW01	18	0.015	0.07	0.219
EW02	18	0.015	0.07	0.217
EW03	18	0.015	0.07	0.217
Unused	18	0.000	0.07	0.000
Unused	18	0.000	0.07	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-365
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Mercury**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.170	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.714	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.155	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.387	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.076	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.133	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.399	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.015	0.01	2.188
EE02	18	0.016	0.01	2.235
EE03	18	0.015	0.01	2.186
EE04	18	0.015	0.01	2.174
EE05	18	0.016	0.01	2.215
EE06	18	0.015	0.01	2.195
EE07	18	0.015	0.01	2.173
EE08	18	0.015	0.01	2.177
EE09	18	0.015	0.01	2.173
EE10	18	0.015	0.01	2.183
EW01	18	0.016	0.01	2.216
EW02	18	0.015	0.01	2.173
EW03	18	0.015	0.01	2.173
Unused	18	0.000	0.01	0.000
Unused	18	0.000	0.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

TABLE I-366
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Mercury

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.170	0.000	0.100
EE02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.714	0.000	0.100
EE03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.155	0.000	0.100
EE04	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.051	0.000	0.100
EE05	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.387	0.000	0.100
EE06	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.226	0.000	0.100
EE07	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.050	0.000	0.100
EE08	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.076	0.000	0.100
EE09	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EE10	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.133	0.000	0.100
EW01	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.399	0.000	0.100
EW02	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
EW03	0.100	0.050	10.000	10.000	0.252	0.252	0.200	0.100	0.000	0.049	0.000	0.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
LOCATION	Area		TRV	HAZARD QUOTIENT
	Use Factor	Applied Daily Dose		
EE01	18	0.015	0.07	0.219
EE02	18	0.016	0.07	0.225
EE03	18	0.015	0.07	0.219
EE04	18	0.015	0.07	0.217
EE05	18	0.016	0.07	0.221
EE06	18	0.015	0.07	0.219
EE07	18	0.015	0.07	0.217
EE08	18	0.015	0.07	0.218
EE09	18	0.015	0.07	0.217
EE10	18	0.015	0.07	0.218
EW01	18	0.016	0.07	0.222
EW02	18	0.015	0.07	0.217
EW03	18	0.015	0.07	0.217
Unused	18	0.000	0.07	0.000
Unused	18	0.000	0.07	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-367
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Raccoon exposed to Mercury

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.38	0.94	0.00	93.91	0.79	0.79	0.25	0.31	0.00	0.62	0.00	0.01
EE02	2.34	0.92	0.00	92.36	0.78	0.78	0.25	0.31	0.00	2.27	0.00	0.01
EE03	2.38	0.94	0.00	93.87	0.79	0.79	0.25	0.31	0.00	0.66	0.00	0.01
EE04	2.39	0.94	0.00	94.23	0.79	0.79	0.25	0.31	0.00	0.28	0.00	0.01
EE05	2.36	0.93	0.00	93.07	0.78	0.78	0.25	0.31	0.00	1.51	0.00	0.01
EE06	2.36	0.93	0.00	93.32	0.78	0.78	0.25	0.31	0.00	1.24	0.00	0.01
EE07	2.39	0.94	0.00	94.23	0.79	0.79	0.25	0.31	0.00	0.28	0.00	0.01
EE08	2.39	0.94	0.00	94.17	0.79	0.79	0.25	0.31	0.00	0.35	0.00	0.01
EE09	2.39	0.94	0.00	94.24	0.79	0.79	0.25	0.31	0.00	0.28	0.00	0.01
EE10	2.38	0.94	0.00	94.01	0.79	0.79	0.25	0.31	0.00	0.51	0.00	0.01
EW01	2.36	0.93	0.00	93.31	0.78	0.78	0.25	0.31	0.00	1.26	0.00	0.01
EW02	2.39	0.94	0.00	94.24	0.79	0.79	0.25	0.31	0.00	0.28	0.00	0.01
EW03	2.39	0.94	0.00	94.24	0.79	0.79	0.25	0.31	0.00	0.27	0.00	0.01
Average	2.38	0.94	0.00	93.78	0.79	0.79	0.25	0.31	0.00	0.75	0.00	0.01

**TABLE I-368
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Molybdenum**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)													
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water	
EE01	1.400	1.000	1.400	1.400	1.400	1.400	1.400	1.400	0.000	1.621	0.000	14.000	
EE02	47.200	1.000	47.200	47.200	47.200	47.200	47.200	47.200	0.000	3.846	0.000	472.000	
EE03	21.500	1.000	21.500	21.500	21.500	21.500	21.500	21.500	0.000	1.209	0.000	215.000	
EE04	10.300	1.000	10.300	10.300	10.300	10.300	10.300	10.300	0.000	2.018	0.000	103.000	
EE05	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.881	0.000	10.000	
EE06	7.300	1.000	7.300	7.300	7.300	7.300	7.300	7.300	0.000	5.520	0.000	73.000	
EE07	10.900	1.000	10.900	10.900	10.900	10.900	10.900	10.900	0.000	0.995	0.000	109.000	
EE08	4.250	1.000	4.250	4.250	4.250	4.250	4.250	4.250	0.000	0.851	0.000	42.500	
EE09	3.400	1.000	3.400	3.400	3.400	3.400	3.400	3.400	0.000	1.545	0.000	34.000	
EE10	3.300	1.000	3.300	3.300	3.300	3.300	3.300	3.300	0.000	1.011	0.000	33.000	
EW01	2.500	1.000	2.500	2.500	2.500	2.500	2.500	2.500	0.000	23.050	0.000	23.000	
EW02	1.500	1.000	1.500	1.500	1.500	1.500	1.500	1.500	0.000	2.020	0.000	15.000	
EW03	1.350	1.000	1.350	1.350	1.350	1.350	1.350	1.350	0.000	0.617	0.000	13.500	
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.014	0.03	0.461
EE02	18	0.329	0.03	10.974
EE03	18	0.151	0.03	5.035
EE04	18	0.075	0.03	2.503
EE05	18	0.010	0.03	0.349
EE06	18	0.058	0.03	1.919
EE07	18	0.078	0.03	2.611
EE08	18	0.033	0.03	1.090
EE09	18	0.027	0.03	0.915
EE10	18	0.026	0.03	0.877
EW01	18	0.040	0.03	1.325
EW02	18	0.015	0.03	0.496
EW03	18	0.013	0.03	0.421
Unused	18	0.000	0.03	0.000
Unused	18	0.000	0.03	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-369
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Molybdenum

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1.400	1.000	1.400	1.400	1.400	1.400	1.400	1.400	0.000	1.621	0.000	14.000
EE02	47.200	1.000	47.200	47.200	47.200	47.200	47.200	47.200	0.000	3.846	0.000	472.000
EE03	21.500	1.000	21.500	21.500	21.500	21.500	21.500	21.500	0.000	1.209	0.000	215.000
EE04	10.300	1.000	10.300	10.300	10.300	10.300	10.300	10.300	0.000	2.018	0.000	103.000
EE05	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.881	0.000	10.000
EE06	7.300	1.000	7.300	7.300	7.300	7.300	7.300	7.300	0.000	5.520	0.000	73.000
EE07	10.900	1.000	10.900	10.900	10.900	10.900	10.900	10.900	0.000	0.995	0.000	109.000
EE08	4.250	1.000	4.250	4.250	4.250	4.250	4.250	4.250	0.000	0.851	0.000	42.500
EE09	3.400	1.000	3.400	3.400	3.400	3.400	3.400	3.400	0.000	1.545	0.000	34.000
EE10	3.300	1.000	3.300	3.300	3.300	3.300	3.300	3.300	0.000	1.011	0.000	33.000
EW01	2.500	1.000	2.500	2.500	2.500	2.500	2.500	2.500	0.000	23.050	0.000	25.000
EW02	1.500	1.000	1.500	1.500	1.500	1.500	1.500	1.500	0.000	2.020	0.000	15.000
EW03	1.350	1.000	1.350	1.350	1.350	1.350	1.350	1.350	0.000	0.617	0.000	13.500
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.014	0.30	0.046
EE02	18	0.329	0.30	1.097
EE03	18	0.151	0.30	0.504
EE04	18	0.075	0.30	0.250
EE05	18	0.010	0.30	0.035
EE06	18	0.058	0.30	0.192
EE07	18	0.078	0.30	0.261
EE08	18	0.033	0.30	0.109
EE09	18	0.027	0.30	0.092
EE10	18	0.026	0.30	0.088
EW01	18	0.040	0.30	0.132
EW02	18	0.015	0.30	0.050
EW03	18	0.013	0.30	0.042
Unused	18	0.000	0.30	0.000
Unused	18	0.000	0.30	0.000

TABLE I-370
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Molybdenum

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1,800	1,000	1,800	1,800	1,800	1,800	1,800	1,800	0.000	1,992	0.000	18,000
EE02	85,000	1,000	85,000	85,000	85,000	85,000	85,000	85,000	0.000	4,956	0.000	850,000
EE03	25,000	1,000	25,000	25,000	25,000	25,000	25,000	25,000	0.000	1,428	0.000	250,000
EE04	17,000	1,000	17,000	17,000	17,000	17,000	17,000	17,000	0.000	3,040	0.000	170,000
EE05	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	0.000	0,989	0.000	10,000
EE06	11,000	1,000	11,000	11,000	11,000	11,000	11,000	11,000	0.000	6,292	0.000	110,000
EE07	13,000	1,000	13,000	13,000	13,000	13,000	13,000	13,000	0.000	0,996	0.000	130,000
EE08	7,200	1,000	7,200	7,200	7,200	7,200	7,200	7,200	0.000	1,013	0.000	72,000
EE09	5,800	1,000	5,800	5,800	5,800	5,800	5,800	5,800	0.000	2,106	0.000	58,000
EE10	5,600	1,000	5,600	5,600	5,600	5,600	5,600	5,600	0.000	1,014	0.000	56,000
EW01	3,200	1,000	3,200	3,200	3,200	3,200	3,200	3,200	0.000	40,740	0.000	32,000
EW02	2,000	1,000	2,000	2,000	2,000	2,000	2,000	2,000	0.000	2,400	0.000	20,000
EW03	1,700	1,000	1,700	1,700	1,700	1,700	1,700	1,700	0.000	0,984	0.000	17,000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
LOCATION	BASED ON UCL (or max) CONCENTRATIONS		TRV	HAZARD QUOTIENT
	Area Use Factor	Applied Daily Dose		
EE01	18	0.017	0.03	0.563
EE02	18	0.589	0.03	19,629
EE03	18	0.175	0.03	5,840
EE04	18	0.122	0.03	4,061
EE05	18	0.011	0.03	0.352
EE06	18	0.084	0.03	2,785
EE07	18	0.093	0.03	3,090
EE08	18	0.053	0.03	1,767
EE09	18	0.044	0.03	1,479
EE10	18	0.042	0.03	1,402
EW01	18	0.060	0.03	1,990
EW02	18	0.019	0.03	0.620
EW03	18	0.015	0.03	0.512
Unused	18	0.000	0.03	0.000
Unused	18	0.000	0.03	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-371
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Molybdenum**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	1.800	1.000	1.800	1.800	1.800	1.800	1.800	1.800	0.000	1.992	0.000	18.000
EE02	85.000	1.000	85.000	85.000	85.000	85.000	85.000	85.000	0.000	4.956	0.000	850.000
EE03	25.000	1.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	1.428	0.000	250.000
EE04	17.000	1.000	17.000	17.000	17.000	17.000	17.000	17.000	0.000	3.040	0.000	170.000
EE05	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.989	0.000	10.000
EE06	11.000	1.000	11.000	11.000	11.000	11.000	11.000	11.000	0.000	6.292	0.000	110.000
EE07	13.000	1.000	13.000	13.000	13.000	13.000	13.000	13.000	0.000	0.996	0.000	130.000
EE08	7.200	1.000	7.200	7.200	7.200	7.200	7.200	7.200	0.000	1.013	0.000	72.000
EE09	5.800	1.000	5.800	5.800	5.800	5.800	5.800	5.800	0.000	2.106	0.000	58.000
EE10	5.600	1.000	5.600	5.600	5.600	5.600	5.600	5.600	0.000	1.014	0.000	56.000
EW01	3.200	1.000	3.200	3.200	3.200	3.200	3.200	3.200	0.000	40.740	0.000	32.000
EW02	2.000	1.000	2.000	2.000	2.000	2.000	2.000	2.000	0.000	2.400	0.000	20.000
EW03	1.700	1.000	1.700	1.700	1.700	1.700	1.700	1.700	0.000	0.984	0.000	17.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	18	0.017	0.30	0.056	
EE02	18	0.589	0.30	1.963	
EE03	18	0.175	0.30	0.584	
EE04	18	0.122	0.30	0.406	
EE05	18	0.011	0.30	0.035	
EE06	18	0.084	0.30	0.278	
EE07	18	0.093	0.30	0.309	
EE08	18	0.053	0.30	0.177	
EE09	18	0.044	0.30	0.148	
EE10	18	0.042	0.30	0.140	
EW01	18	0.060	0.30	0.199	
EW02	18	0.019	0.30	0.062	
EW03	18	0.015	0.30	0.051	
Unused	18	0.000	0.30	0.000	
Unused	18	0.000	0.30	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-372
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Raccoon exposed to Molybdenum

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	36.74	20.72	0.00	14.50	4.83	4.83	1.93	4.83	0.00	10.04	0.00	1.56
EE02	52.07	0.87	0.00	20.55	6.85	6.85	2.74	6.85	0.00	1.00	0.00	2.21
EE03	51.69	1.90	0.00	20.40	6.80	6.80	2.72	6.80	0.00	0.69	0.00	2.20
EE04	49.81	3.82	0.00	19.66	6.55	6.55	2.62	6.55	0.00	2.30	0.00	2.12
EE05	34.70	27.59	0.00	13.70	4.57	4.57	1.83	4.57	0.00	7.21	0.00	1.47
EE06	46.06	4.98	0.00	18.18	6.06	6.06	2.42	6.06	0.00	8.22	0.00	1.96
EE07	50.54	3.66	0.00	19.95	6.65	6.65	2.66	6.65	0.00	1.09	0.00	2.15
EE08	47.22	8.77	0.00	18.64	6.21	6.21	2.49	6.21	0.00	2.23	0.00	2.01
EE09	44.96	10.44	0.00	17.75	5.92	5.92	2.37	5.92	0.00	4.82	0.00	1.91
EE10	45.53	10.89	0.00	17.97	5.99	5.99	2.40	5.99	0.00	3.29	0.00	1.93
EW01	22.85	7.22	0.00	9.02	3.01	3.01	1.20	3.01	0.00	49.72	0.00	0.97
EW02	36.65	19.29	0.00	14.47	4.82	4.82	1.93	4.82	0.00	11.65	0.00	1.56
EW03	38.80	22.69	0.00	15.32	5.11	5.11	2.04	5.11	0.00	4.19	0.00	1.65
Average	42.89	10.97	0.00	16.93	5.64	5.64	2.26	5.64	0.00	8.19	0.00	1.82

**TABLE I-373
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Nickel**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	6.864	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	47.934	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	13.810	0.000	20.000
EE04	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	21.815	0.000	20.000
EE05	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	200.470	0.000	20.000
EE06	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	135.033	0.000	20.000
EE07	1.475	1.700	1.475	1.475	0.031	0.031	0.031	0.031	0.000	19.937	0.000	14.750
EE08	1.500	1.800	1.500	1.500	0.032	0.032	0.032	0.032	0.000	21.024	0.000	15.000
EE09	1.700	1.530	1.700	1.700	0.036	0.036	0.036	0.036	0.000	65.658	0.000	17.000
EE10	2.000	1.530	2.000	2.000	0.042	0.042	0.042	0.042	0.000	41.703	0.000	20.000
EW01	6.900	1.000	6.900	6.900	0.145	0.145	0.145	0.145	0.000	1002.100	0.000	69.000
EW02	1.650	1.000	1.650	1.650	0.035	0.035	0.035	0.035	0.000	51.675	0.000	16.500
EW03	1.600	1.900	1.600	1.600	0.034	0.034	0.034	0.034	0.000	12.551	0.000	16.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.020	25.00	0.001
EE02	18	0.055	25.00	0.002
EE03	18	0.026	25.00	0.001
EE04	18	0.034	25.00	0.001
EE05	18	0.187	25.00	0.007
EE06	18	0.131	25.00	0.005
EE07	18	0.030	25.00	0.001
EE08	18	0.031	25.00	0.001
EE09	18	0.070	25.00	0.003
EE10	18	0.051	25.00	0.002
EW01	18	0.898	25.00	0.036
EW02	18	0.056	25.00	0.002
EW03	18	0.025	25.00	0.001
Unused	18	0.000	25.00	0.000
Unused	18	0.000	25.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-374
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Nickel

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	6.864	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	47.934	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	13.810	0.000	20.000
EE04	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	21.815	0.000	20.000
EE05	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	200.470	0.000	20.000
EE06	2.000	1.570	2.000	2.000	0.042	0.042	0.042	0.042	0.000	135.033	0.000	20.000
EE07	1.475	1.700	1.475	1.475	0.031	0.031	0.031	0.031	0.000	19.937	0.000	14.750
EE08	1.500	1.800	1.500	1.500	0.032	0.032	0.032	0.032	0.000	21.024	0.000	15.000
EE09	1.700	1.530	1.700	1.700	0.036	0.036	0.036	0.036	0.000	65.658	0.000	17.000
EE10	2.000	1.530	2.000	2.000	0.042	0.042	0.042	0.042	0.000	41.703	0.000	20.000
EW01	6.900	1.000	6.900	6.900	0.145	0.145	0.145	0.145	0.000	1082.100	0.000	69.000
EW02	1.650	1.000	1.650	1.650	0.035	0.035	0.035	0.035	0.000	51.675	0.000	16.500
EW03	1.600	1.900	1.600	1.600	0.034	0.034	0.034	0.034	0.000	12.351	0.000	16.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.020	63.00	0.000
EE02	18	0.055	63.00	0.001
EE03	18	0.026	63.00	0.000
EE04	18	0.034	63.00	0.001
EE05	18	0.187	63.00	0.003
EE06	18	0.131	63.00	0.002
EE07	18	0.030	63.00	0.000
EE08	18	0.031	63.00	0.000
EE09	18	0.070	63.00	0.001
EE10	18	0.051	63.00	0.001
EW01	18	0.898	63.00	0.014
EW02	18	0.056	63.00	0.001
EW03	18	0.025	63.00	0.000
Unused	18	0.000	63.00	0.000
Unused	18	0.000	63.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-375
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Nickel**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	8.000	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	48.216	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	17.372	0.000	20.000
EE04	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	25.149	0.000	20.000
EE05	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	258.180	0.000	20.000
EE06	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	228.800	0.000	20.000
EE07	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	36.636	0.000	20.000
EE08	2.000	1.800	2.000	2.000	0.042	0.042	0.042	0.042	0.000	32.319	0.000	20.000
EE09	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	107.420	0.000	20.000
EE10	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	75.426	0.000	20.000
EW01	9.900	1.000	9.900	9.900	0.208	0.208	0.208	0.208	0.000	1751.400	0.000	99.000
EW02	2.000	1.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	78.750	0.000	20.000
EW03	2.000	1.900	2.000	2.000	0.042	0.042	0.042	0.042	0.000	20.592	0.000	20.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.021	25.00	0.001
EE02	18	0.055	25.00	0.002
EE03	18	0.029	25.00	0.001
EE04	18	0.038	25.00	0.002
EE05	18	0.238	25.00	0.010
EE06	18	0.213	25.00	0.009
EE07	18	0.048	25.00	0.002
EE08	18	0.043	25.00	0.002
EE09	18	0.108	25.00	0.004
EE10	18	0.081	25.00	0.003
EW01	18	1.556	25.00	0.062
EW02	18	0.081	25.00	0.003
EW03	18	0.034	25.00	0.001
Unused	18	0.000	25.00	0.000
Unused	18	0.000	25.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-376
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Nickel**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	8.000	0.000	20.000
EE02	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	48.216	0.000	20.000
EE03	2.000	1.200	2.000	2.000	0.042	0.042	0.042	0.042	0.000	17.372	0.000	20.000
EE04	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	25.149	0.000	20.000
EE05	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	238.180	0.000	20.000
EE06	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	228.800	0.000	20.000
EE07	2.000	2.100	2.000	2.000	0.042	0.042	0.042	0.042	0.000	36.636	0.000	20.000
EE08	2.000	1.800	2.000	2.000	0.042	0.042	0.042	0.042	0.000	32.319	0.000	20.000
EE09	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	107.420	0.000	20.000
EE10	2.000	2.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	75.426	0.000	20.000
EW01	9.900	1.000	9.900	9.900	0.208	0.208	0.208	0.208	0.000	1751.400	0.000	95.000
EW02	2.000	1.000	2.000	2.000	0.042	0.042	0.042	0.042	0.000	78.750	0.000	20.000
EW03	2.000	1.900	2.000	2.000	0.042	0.042	0.042	0.042	0.000	20.592	0.000	20.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	18	0.021	63.00	0.000	0.000
EE02	18	0.055	63.00	0.001	0.001
EE03	18	0.029	63.00	0.000	0.000
EE04	18	0.038	63.00	0.001	0.001
EE05	18	0.238	63.00	0.004	0.004
EE06	18	0.213	63.00	0.003	0.003
EE07	18	0.048	63.00	0.001	0.001
EE08	18	0.043	63.00	0.001	0.001
EE09	18	0.108	63.00	0.002	0.002
EE10	18	0.081	63.00	0.001	0.001
EW01	18	1.556	63.00	0.025	0.025
EW02	18	0.081	63.00	0.001	0.001
EW03	18	0.034	63.00	0.001	0.001
Unused	18	0.000	63.00	0.000	0.000
Unused	18	0.000	63.00	0.000	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-377
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Raccoon exposed to Nickel

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	36.63	17.35	0.00	14.46	0.10	0.10	0.04	0.10	0.00	29.67	0.00	1.56
EE02	13.20	6.25	0.00	5.21	0.04	0.04	0.01	0.04	0.00	74.66	0.00	0.56
EE03	28.17	13.34	0.00	11.12	0.08	0.08	0.03	0.08	0.00	45.91	0.00	1.20
EE04	21.55	13.35	0.00	8.51	0.06	0.06	0.02	0.06	0.00	55.47	0.00	0.92
EE05	3.89	2.41	0.00	1.53	0.01	0.01	0.00	0.01	0.00	91.97	0.00	0.17
EE06	5.56	3.44	0.00	2.19	0.02	0.02	0.01	0.02	0.00	88.52	0.00	0.24
EE07	18.03	16.40	0.00	7.12	0.05	0.05	0.02	0.05	0.00	57.51	0.00	0.77
EE08	17.54	16.61	0.00	6.92	0.05	0.05	0.02	0.05	0.00	58.01	0.00	0.75
EE09	8.87	6.30	0.00	3.50	0.02	0.02	0.01	0.02	0.00	80.86	0.00	0.38
EE10	14.34	8.66	0.00	5.66	0.04	0.04	0.02	0.04	0.00	70.59	0.00	0.61
EW01	2.79	0.32	0.00	1.10	0.01	0.01	0.00	0.01	0.00	95.64	0.00	0.12
EW02	10.73	5.14	0.00	4.24	0.03	0.03	0.01	0.03	0.00	79.34	0.00	0.46
EW03	23.61	22.13	0.00	9.32	0.07	0.07	0.03	0.07	0.00	43.71	0.00	1.00
Average	15.76	10.13	0.00	6.22	0.04	0.04	0.02	0.04	0.00	67.07	0.00	0.67

**TABLE I-378
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Selenium**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.210	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.874	0.000	2.500
EE02	2.200	1.210	0.377	0.377	0.020	0.020	0.020	0.020	0.000	0.633	0.000	2.750
EE03	2.000	1.210	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.510	0.000	2.500
EE04	2.000	0.960	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.373	0.000	2.500
EE05	2.000	0.960	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.250	0.000	2.500
EE06	3.000	0.960	0.514	0.514	0.027	0.027	0.027	0.027	0.000	0.343	0.000	3.750
EE07	1.960	0.510	0.336	0.336	0.018	0.018	0.018	0.018	0.000	0.375	0.000	2.450
EE08	2.240	0.670	0.384	0.384	0.020	0.020	0.020	0.020	0.000	0.502	0.000	2.800
EE09	3.000	0.710	0.514	0.514	0.027	0.027	0.027	0.027	0.000	0.368	0.000	3.750
EE10	19.000	0.710	3.256	3.256	0.173	0.173	0.173	0.173	0.000	0.168	0.000	23.750
EW01	2.000	1.017	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.523	0.000	2.500
EW02	3.160	1.017	0.542	0.542	0.029	0.029	0.029	0.029	0.000	0.256	0.000	3.950
EW03	2.240	1.017	0.384	0.384	0.020	0.020	0.020	0.020	0.000	0.371	0.000	2.800
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.012	0.17	0.071
EE02	18	0.013	0.17	0.074
EE03	18	0.012	0.17	0.069
EE04	18	0.011	0.17	0.064
EE05	18	0.011	0.17	0.063
EE06	18	0.015	0.17	0.087
EE07	18	0.009	0.17	0.056
EE08	18	0.011	0.17	0.065
EE09	18	0.014	0.17	0.083
EE10	18	0.076	0.17	0.450
EW01	18	0.011	0.17	0.066
EW02	18	0.015	0.17	0.091
EW03	18	0.012	0.17	0.071
Unused	18	0.000	0.17	0.000
Unused	18	0.000	0.17	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-379
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Selenium

LOCATION	MEAN CONCENTRATION (mg/kg, Wet Weight Basis)											
	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.210	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.874	0.000	2.500
EE02	2.200	1.210	0.377	0.377	0.020	0.020	0.020	0.020	0.000	0.633	0.000	2.750
EE03	2.000	1.210	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.510	0.000	2.500
EE04	2.000	0.960	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.373	0.000	2.500
EE05	2.000	0.960	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.250	0.000	2.500
EE06	3.000	0.960	0.514	0.514	0.027	0.027	0.027	0.027	0.000	0.343	0.000	3.750
EE07	1.960	0.510	0.336	0.336	0.018	0.018	0.018	0.018	0.000	0.375	0.000	2.450
EE08	2.240	0.670	0.384	0.384	0.020	0.020	0.020	0.020	0.000	0.502	0.000	2.800
EE09	3.000	0.710	0.514	0.514	0.027	0.027	0.027	0.027	0.000	0.368	0.000	3.750
EE10	19.000	0.710	3.256	3.256	0.173	0.173	0.173	0.173	0.000	0.168	0.000	23.750
EW01	2.000	1.017	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.525	0.000	2.500
EW02	3.160	1.017	0.542	0.542	0.029	0.029	0.029	0.029	0.000	0.256	0.000	3.950
EW03	2.240	1.017	0.384	0.384	0.020	0.020	0.020	0.020	0.000	0.371	0.000	2.800
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

LOCATION	HAZARD QUOTIENTS			
	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.012	0.35	0.034
EE02	18	0.013	0.35	0.036
EE03	18	0.012	0.35	0.034
EE04	18	0.011	0.35	0.031
EE05	18	0.011	0.35	0.031
EE06	18	0.015	0.35	0.042
EE07	18	0.009	0.35	0.027
EE08	18	0.011	0.35	0.032
EE09	18	0.014	0.35	0.040
EE10	18	0.076	0.35	0.219
EW01	18	0.011	0.35	0.032
EW02	18	0.015	0.35	0.044
EW03	18	0.012	0.35	0.034
Unused	18	0.000	0.35	0.000
Unused	18	0.000	0.35	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-380
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Selenium

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.500	0.343	0.343	0.018	0.018	0.018	0.018	0.000	1.250	0.000	2.500
EE02	2.400	1.500	0.411	0.411	0.022	0.022	0.022	0.022	0.000	1.008	0.000	3.000
EE03	2.000	1.500	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.516	0.000	2.500
EE04	2.000	1.700	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.498	0.000	2.500
EE05	2.000	1.700	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.250	0.000	2.500
EE06	4.000	1.700	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.484	0.000	5.000
EE07	2.000	0.510	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.498	0.000	2.500
EE08	2.480	0.670	0.425	0.425	0.023	0.023	0.023	0.023	0.000	0.518	0.000	3.100
EE09	4.000	0.980	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.486	0.000	5.000
EE10	35.200	0.980	6.032	6.032	0.321	0.321	0.321	0.321	0.000	0.226	0.000	44.000
EW01	2.000	1.100	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.798	0.000	2.500
EW02	4.000	1.100	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.263	0.000	5.000
EW03	2.480	1.100	0.425	0.425	0.023	0.023	0.023	0.023	0.000	0.492	0.000	3.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.013	0.17	0.078
EE02	18	0.015	0.17	0.086
EE03	18	0.013	0.17	0.074
EE04	18	0.013	0.17	0.077
EE05	18	0.013	0.17	0.076
EE06	18	0.021	0.17	0.123
EE07	18	0.010	0.17	0.057
EE08	18	0.012	0.17	0.071
EE09	18	0.019	0.17	0.111
EE10	18	0.141	0.17	0.828
EW01	18	0.012	0.17	0.069
EW02	18	0.019	0.17	0.112
EW03	18	0.013	0.17	0.078
Unused	18	0.000	0.17	0.000
Unused	18	0.000	0.17	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-381
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Selenium

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	2.000	1.500	0.343	0.343	0.018	0.018	0.018	0.018	0.000	1.250	0.000	2.500
EE02	2.400	1.500	0.411	0.411	0.022	0.022	0.022	0.022	0.000	1.008	0.000	3.000
EE03	2.000	1.500	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.516	0.000	2.500
EE04	2.000	1.700	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.498	0.000	2.500
EE05	2.000	1.700	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.250	0.000	2.500
EE06	4.000	1.700	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.484	0.000	5.000
EE07	2.000	0.510	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.498	0.000	2.500
EE08	2.480	0.670	0.425	0.425	0.023	0.023	0.023	0.023	0.000	0.518	0.000	3.100
EE09	4.000	0.980	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.486	0.000	5.000
EE10	35.200	0.980	6.032	6.032	0.321	0.321	0.321	0.321	0.000	0.226	0.000	44.000
EW01	2.000	1.100	0.343	0.343	0.018	0.018	0.018	0.018	0.000	0.798	0.000	2.500
EW02	4.000	1.100	0.686	0.686	0.037	0.037	0.037	0.037	0.000	0.263	0.000	5.000
EW03	2.480	1.100	0.425	0.425	0.023	0.023	0.023	0.023	0.000	0.492	0.000	3.100
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.013	0.35	0.038
EE02	18	0.015	0.35	0.042
EE03	18	0.013	0.35	0.036
EE04	18	0.013	0.35	0.037
EE05	18	0.013	0.35	0.037
EE06	18	0.021	0.35	0.060
EE07	18	0.010	0.35	0.028
EE08	18	0.012	0.35	0.034
EE09	18	0.019	0.35	0.054
EE10	18	0.141	0.35	0.402
EW01	18	0.012	0.35	0.033
EW02	18	0.019	0.35	0.054
EW03	18	0.013	0.35	0.038
Unused	18	0.000	0.35	0.000
Unused	18	0.000	0.35	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-382
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Raccoon exposed to Selenium

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	60.32	28.81	0.00	4.08	0.07	0.07	0.03	0.07	0.00	6.22	0.00	0.32
EE02	63.32	27.50	0.00	4.28	0.08	0.08	0.03	0.08	0.00	4.30	0.00	0.34
EE03	61.93	29.58	0.00	4.19	0.07	0.07	0.03	0.07	0.00	3.73	0.00	0.33
EE04	66.67	25.26	0.00	4.51	0.08	0.08	0.03	0.08	0.00	2.93	0.00	0.35
EE05	67.32	25.51	0.00	4.55	0.08	0.08	0.03	0.08	0.00	1.98	0.00	0.36
EE06	73.71	18.62	0.00	4.99	0.09	0.09	0.04	0.09	0.00	1.99	0.00	0.39
EE07	75.32	15.47	0.00	5.10	0.09	0.09	0.04	0.09	0.00	3.40	0.00	0.40
EE08	73.20	17.29	0.00	4.95	0.09	0.09	0.04	0.09	0.00	3.87	0.00	0.39
EE09	77.35	14.45	0.00	5.23	0.09	0.09	0.04	0.09	0.00	2.24	0.00	0.41
EE10	90.20	2.66	0.00	6.10	0.11	0.11	0.04	0.11	0.00	0.19	0.00	0.48
EW01	64.92	26.06	0.00	4.39	0.08	0.08	0.03	0.08	0.00	4.02	0.00	0.34
EW02	74.06	18.82	0.00	5.01	0.09	0.09	0.04	0.09	0.00	1.42	0.00	0.39
EW03	67.81	24.31	0.00	4.59	0.08	0.08	0.03	0.08	0.00	2.65	0.00	0.36
Average	70.47	21.10	0.00	4.77	0.08	0.08	0.03	0.08	0.00	3.00	0.00	0.37

**TABLE I-383
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Silver**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.348	0.000	0.060
EE02	0.011	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.733	0.000	0.055
EE03	0.023	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.762	0.000	0.115
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.489	0.000	0.050
EE05	0.030	0.320	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.968	0.000	0.150
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.358	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.853	0.000	0.050
EE08	0.024	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.826	0.000	0.120
EE09	0.019	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.491	0.000	0.095
EE10	0.010	1.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.514	0.000	0.050
EW01	0.017	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.316	0.000	0.085
EW02	0.018	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	2.705	0.000	0.090
EW03	0.010	0.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.774	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS			
BASED ON MEAN CONCENTRATIONS			
LOCATION	Area Use Factor	Applied Daily Dose	HAZARD QUOTIENT
EE01	18	0.007	0.67
EE02	18	0.003	0.67
EE03	18	0.003	0.67
EE04	18	0.001	0.67
EE05	18	0.009	0.67
EE06	18	0.006	0.67
EE07	18	0.002	0.67
EE08	18	0.004	0.67
EE09	18	0.008	0.67
EE10	18	0.006	0.67
EW01	18	0.009	0.67
EW02	18	0.005	0.67
EW03	18	0.002	0.67
Unused	18	0.000	0.67
Unused	18	0.000	0.67

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-384
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Silver

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.348	0.000	0.060
EE02	0.011	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.733	0.000	0.055
EE03	0.023	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.762	0.000	0.115
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.489	0.000	0.050
EE05	0.030	0.320	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.968	0.000	0.150
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.358	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.853	0.000	0.050
EE08	0.024	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.826	0.000	0.120
EE09	0.019	1.280	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.491	0.000	0.095
EE10	0.010	1.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.314	0.000	0.050
EW01	0.017	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	8.316	0.000	0.085
EW02	0.018	0.747	0.000	0.000	0.001	0.001	0.001	0.001	0.000	2.705	0.000	0.090
EW03	0.010	0.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.774	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.007	2.70	0.003
EE02	18	0.003	2.70	0.001
EE03	18	0.003	2.70	0.001
EE04	18	0.001	2.70	0.001
EE05	18	0.009	2.70	0.003
EE06	18	0.006	2.70	0.002
EE07	18	0.002	2.70	0.001
EE08	18	0.004	2.70	0.001
EE09	18	0.008	2.70	0.003
EE10	18	0.006	2.70	0.002
EW01	18	0.009	2.70	0.003
EW02	18	0.005	2.70	0.002
EW03	18	0.002	2.70	0.001
Unused	18	0.000	2.70	0.000
Unused	18	0.000	2.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-385
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Silver

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.014	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.700	0.000	0.070
EE02	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.478	0.000	0.060
EE03	0.036	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.008	0.000	0.180
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.498	0.000	0.050
EE05	0.050	0.320	0.001	0.001	0.002	0.002	0.002	0.002	0.000	9.594	0.000	0.250
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.648	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.207	0.000	0.050
EE08	0.038	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.134	0.000	0.190
EE09	0.028	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	5.822	0.000	0.140
EE10	0.010	1.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.524	0.000	0.050
EW01	0.024	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	15.120	0.000	0.120
EW02	0.026	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.425	0.000	0.130
EW03	0.010	0.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.056	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.012	0.67	0.018
EE02	18	0.004	0.67	0.006
EE03	18	0.003	0.67	0.004
EE04	18	0.001	0.67	0.002
EE05	18	0.009	0.67	0.014
EE06	18	0.010	0.67	0.015
EE07	18	0.002	0.67	0.003
EE08	18	0.006	0.67	0.009
EE09	18	0.010	0.67	0.015
EE10	18	0.009	0.67	0.013
EW01	18	0.015	0.67	0.023
EW02	18	0.006	0.67	0.009
EW03	18	0.003	0.67	0.004
Unused	18	0.000	0.67	0.000
Unused	18	0.000	0.67	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-386
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Silver

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.014	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.700	0.000	0.070
EE02	0.012	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.478	0.000	0.060
EE03	0.036	0.650	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.008	0.000	0.180
EE04	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.498	0.000	0.050
EE05	0.050	0.320	0.001	0.001	0.002	0.002	0.002	0.002	0.000	9.594	0.000	0.250
EE06	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.648	0.000	0.050
EE07	0.010	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.207	0.000	0.050
EE08	0.038	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	1.134	0.000	0.190
EE09	0.028	1.700	0.000	0.000	0.001	0.001	0.001	0.001	0.000	5.822	0.000	0.140
EE10	0.010	1.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.524	0.000	0.050
EW01	0.024	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	15.120	0.000	0.120
EW02	0.026	0.820	0.000	0.000	0.001	0.001	0.001	0.001	0.000	4.425	0.000	0.130
EW03	0.010	0.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.056	0.000	0.050
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Unused	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.012	2.70	0.004
EE02	18	0.004	2.70	0.001
EE03	18	0.003	2.70	0.001
EE04	18	0.001	2.70	0.001
EE05	18	0.009	2.70	0.003
EE06	18	0.010	2.70	0.004
EE07	18	0.002	2.70	0.001
EE08	18	0.006	2.70	0.002
EE09	18	0.010	2.70	0.004
EE10	18	0.009	2.70	0.003
EW01	18	0.015	2.70	0.006
EW02	18	0.006	2.70	0.002
EW03	18	0.003	2.70	0.001
Unused	18	0.000	2.70	0.000
Unused	18	0.000	2.70	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-387
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Raccoon exposed to Silver

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water
EE01	0.59	25.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.03	0.00	0.01
EE02	1.18	54.96	0.00	0.01	0.00	0.00	0.00	0.00	0.00	43.81	0.00	0.03
EE03	3.21	71.58	0.00	0.02	0.01	0.01	0.01	0.01	0.00	25.09	0.00	0.07
EE04	2.64	66.75	0.00	0.01	0.01	0.01	0.00	0.01	0.00	30.50	0.00	0.06
EE05	1.25	10.52	0.00	0.01	0.01	0.01	0.00	0.01	0.00	88.18	0.00	0.03
EE06	0.37	14.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.09	0.00	0.01
EE07	2.15	54.42	0.00	0.01	0.01	0.01	0.00	0.01	0.00	43.34	0.00	0.05
EE08	1.95	82.13	0.00	0.01	0.01	0.01	0.00	0.01	0.00	15.84	0.00	0.04
EE09	0.91	48.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.71	0.00	0.02
EE10	0.62	62.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.76	0.00	0.01
EW01	0.66	22.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.37	0.00	0.01
EW02	1.44	47.30	0.00	0.01	0.01	0.01	0.00	0.01	0.00	51.20	0.00	0.03
EW03	1.77	65.77	0.00	0.01	0.01	0.01	0.00	0.01	0.00	32.38	0.00	0.04
Average	1.46	48.23	0.00	0.01	0.01	0.01	0.00	0.01	0.00	50.25	0.00	0.03

**TABLE I-388
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Pentachlorophenol**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.028	0.800	42.653	37.321	289.834	193.223	57.408	114.815	0.000	2.313	0.000	25.000
EE02	0.059	0.800	90.173	78.901	289.834	193.223	57.408	114.815	0.000	5.386	0.000	25.000
EE03	0.031	0.800	47.611	41.659	289.834	193.223	57.408	114.815	0.000	2.392	0.000	25.000
EE04	0.022	3.200	33.763	29.543	289.834	193.223	57.408	114.815	0.000	0.794	0.000	25.000
EE05	0.310	3.200	476.905	417.292	289.834	193.223	57.408	114.815	0.000	6.035	0.000	25.000
EE06	0.041	3.200	63.503	55.565	289.834	193.223	57.408	114.815	0.000	2.380	0.000	25.000
EE07	0.048	3.200	74.236	64.957	289.834	193.223	57.408	114.815	0.000	0.803	0.000	25.000
EE08	0.071	3.200	109.410	95.734	289.834	193.223	57.408	114.815	0.000	1.216	0.000	25.000
EE09	0.008	3.200	12.822	11.219	289.834	193.223	57.408	114.815	0.000	0.815	0.000	25.000
EE10	0.077	3.200	119.334	104.417	289.834	193.223	57.408	114.815	0.000	0.789	0.000	25.000
EW01	0.014	3.200	21.458	18.776	289.834	193.223	57.408	114.815	0.000	1.598	0.000	25.000
EW02	0.046	3.200	70.236	61.456	289.834	193.223	57.408	114.815	0.000	0.783	0.000	25.000
EW03	0.115	3.200	177.318	155.154	289.834	193.223	57.408	114.815	0.000	0.806	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.355	3.00	0.118
EE02	18	0.417	3.00	0.139
EE03	18	0.361	3.00	0.120
EE04	18	0.349	3.00	0.116
EE05	18	0.911	3.00	0.304
EE06	18	0.388	3.00	0.129
EE07	18	0.400	3.00	0.133
EE08	18	0.445	3.00	0.148
EE09	18	0.323	3.00	0.108
EE10	18	0.457	3.00	0.152
EW01	18	0.335	3.00	0.112
EW02	18	0.395	3.00	0.132
EW03	18	0.530	3.00	0.177
--	18	0.000	3.00	0.000
--	18	0.000	3.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-389
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Pentachlorophenol**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.028	0.800	42.653	37.321	289.834	193.223	57.408	114.815	0.000	2.513	0.000	25.000
EE02	0.059	0.800	90.173	78.901	289.834	193.223	57.408	114.815	0.000	5.586	0.000	25.000
EE03	0.031	0.800	47.611	41.659	289.834	193.223	57.408	114.815	0.000	2.392	0.000	25.000
EE04	0.022	3.200	33.763	29.543	289.834	193.223	57.408	114.815	0.000	0.794	0.000	25.000
EE05	0.310	3.200	476.905	417.292	289.834	193.223	57.408	114.815	0.000	6.035	0.000	25.000
EE06	0.041	3.200	63.503	55.565	289.834	193.223	57.408	114.815	0.000	2.380	0.000	25.000
EE07	0.048	3.200	74.236	64.957	289.834	193.223	57.408	114.815	0.000	0.803	0.000	25.000
EE08	0.071	3.200	109.410	95.734	289.834	193.223	57.408	114.815	0.000	1.216	0.000	25.000
EE09	0.008	3.200	12.822	11.219	289.834	193.223	57.408	114.815	0.000	0.815	0.000	25.000
EE10	0.077	3.200	119.334	104.417	289.834	193.223	57.408	114.815	0.000	0.789	0.000	25.000
EW01	0.014	3.200	21.458	18.776	289.834	193.223	57.408	114.815	0.000	1.598	0.000	25.000
EW02	0.046	3.200	70.236	61.456	289.834	193.223	57.408	114.815	0.000	0.783	0.000	25.000
EW03	0.115	3.200	177.318	155.154	289.834	193.223	57.408	114.815	0.000	0.806	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.355	5.00	0.071
EE02	18	0.417	5.00	0.083
EE03	18	0.361	5.00	0.072
EE04	18	0.349	5.00	0.070
EE05	18	0.911	5.00	0.182
EE06	18	0.388	5.00	0.078
EE07	18	0.400	5.00	0.080
EE08	18	0.445	5.00	0.089
EE09	18	0.323	5.00	0.065
EE10	18	0.457	5.00	0.091
EW01	18	0.335	5.00	0.067
EW02	18	0.395	5.00	0.079
EW03	18	0.530	5.00	0.106
--	18	0.000	5.00	0.000
--	18	0.000	5.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lower-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-390
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Pentachlorophenol

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (mg/L)
EE01	0.046	0.800	70.723	61.883	289.834	193.223	57.408	114.815	0.000	4.026	0.000	25.000
EE02	0.086	0.800	132.421	115.869	289.834	193.223	57.408	114.815	0.000	7.980	0.000	25.000
EE03	0.042	0.800	64.043	56.037	289.834	193.223	57.408	114.815	0.000	3.192	0.000	25.000
EE04	0.022	3.200	34.629	30.300	289.834	193.223	57.408	114.815	0.000	0.800	0.000	25.000
EE05	0.406	3.200	624.910	546.797	289.834	193.223	57.408	114.815	0.000	8.170	0.000	25.000
EE06	0.069	3.200	106.827	93.474	289.834	193.223	57.408	114.815	0.000	3.960	0.000	25.000
EE07	0.053	3.200	81.306	71.143	289.834	193.223	57.408	114.815	0.000	0.817	0.000	25.000
EE08	0.100	3.200	153.501	134.314	289.834	193.223	57.408	114.815	0.000	1.622	0.000	25.000
EE09	0.008	3.200	12.822	11.219	289.834	193.223	57.408	114.815	0.000	0.820	0.000	25.000
EE10	0.079	3.200	122.394	107.095	289.834	193.223	57.408	114.815	0.000	0.798	0.000	25.000
EW01	0.018	3.200	28.118	24.603	289.834	193.223	57.408	114.815	0.000	1.600	0.000	25.000
EW02	0.048	3.200	73.747	64.529	289.834	193.223	57.408	114.815	0.000	0.788	0.000	25.000
EW03	0.121	3.200	186.651	163.320	289.834	193.223	57.408	114.815	0.000	0.820	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.392	3.00	0.131
EE02	18	0.473	3.00	0.158
EE03	18	0.383	3.00	0.128
EE04	18	0.350	3.00	0.117
EE05	18	1.099	3.00	0.366
EE06	18	0.444	3.00	0.148
EE07	18	0.409	3.00	0.136
EE08	18	0.501	3.00	0.167
EE09	18	0.323	3.00	0.108
EE10	18	0.461	3.00	0.154
EW01	18	0.343	3.00	0.114
EW02	18	0.400	3.00	0.133
EW03	18	0.542	3.00	0.181
--	18	0.000	3.00	0.000
--	18	0.000	3.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-391
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Pentachlorophenol**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.046	0.800	70.723	61.883	289.834	193.223	57.408	114.815	0.000	4.026	0.000	25.000
EE02	0.086	0.800	132.421	115.869	289.834	193.223	57.408	114.815	0.000	7.980	0.000	25.000
EE03	0.042	0.800	64.043	56.037	289.834	193.223	57.408	114.815	0.000	3.192	0.000	25.000
EE04	0.022	3.200	34.629	30.300	289.834	193.223	57.408	114.815	0.000	0.800	0.000	25.000
EE05	0.406	3.200	624.910	546.797	289.834	193.223	57.408	114.815	0.000	8.170	0.000	25.000
EE06	0.069	3.200	106.827	93.474	289.834	193.223	57.408	114.815	0.000	3.960	0.000	25.000
EE07	0.033	3.200	81.306	71.143	289.834	193.223	57.408	114.815	0.000	0.817	0.000	25.000
EE08	0.100	3.200	153.501	134.314	289.834	193.223	57.408	114.815	0.000	1.622	0.000	25.000
EE09	0.008	3.200	12.822	11.219	289.834	193.223	57.408	114.815	0.000	0.820	0.000	25.000
EE10	0.079	3.200	122.394	107.095	289.834	193.223	57.408	114.815	0.000	0.798	0.000	25.000
EW01	0.018	3.200	28.118	24.603	289.834	193.223	57.408	114.815	0.000	1.600	0.000	25.000
EW02	0.048	3.200	73.747	64.529	289.834	193.223	57.408	114.815	0.000	0.788	0.000	25.000
EW03	0.121	3.200	186.651	163.320	289.834	193.223	57.408	114.815	0.000	0.820	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.392	5.00	0.078
EE02	18	0.473	5.00	0.095
EE03	18	0.383	5.00	0.077
EE04	18	0.350	5.00	0.070
EE05	18	1.099	5.00	0.220
EE06	18	0.444	5.00	0.089
EE07	18	0.409	5.00	0.082
EE08	18	0.501	5.00	0.100
EE09	18	0.323	5.00	0.065
EE10	18	0.461	5.00	0.092
EW01	18	0.343	5.00	0.069
EW02	18	0.400	5.00	0.080
EW03	18	0.542	5.00	0.108
--	18	0.000	5.00	0.000
--	18	0.000	5.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-392
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Raccoon exposed to Pentachlorophenol

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.03	0.65	0.00	15.07	39.00	26.00	3.09	15.45	0.00	0.61	0.00	0.11
EE02	0.05	0.55	0.00	27.09	33.18	22.12	2.63	13.14	0.00	1.15	0.00	0.09
EE03	0.03	0.63	0.00	16.53	38.34	25.56	3.04	15.19	0.00	0.57	0.00	0.11
EE04	0.02	2.63	0.00	12.12	39.65	26.43	3.14	15.71	0.00	0.19	0.00	0.11
EE05	0.12	1.01	0.00	65.68	15.21	10.14	1.20	6.02	0.00	0.57	0.00	0.04
EE06	0.04	2.36	0.00	20.53	35.69	23.79	2.83	14.14	0.00	0.53	0.00	0.10
EE07	0.04	2.29	0.00	23.27	34.61	23.07	2.74	13.71	0.00	0.17	0.00	0.10
EE08	0.06	2.06	0.00	30.86	31.14	20.76	2.47	12.34	0.00	0.23	0.00	0.09
EE09	0.01	2.84	0.00	4.98	42.87	28.58	3.40	16.98	0.00	0.22	0.00	0.12
EE10	0.06	2.01	0.00	32.76	30.31	20.21	2.40	12.01	0.00	0.15	0.00	0.08
EW01	0.02	2.74	0.00	8.05	41.40	27.60	3.28	16.40	0.00	0.41	0.00	0.12
EW02	0.04	2.32	0.00	22.29	35.05	23.37	2.78	13.88	0.00	0.17	0.00	0.10
EW03	0.08	1.73	0.00	41.99	26.14	17.43	2.07	10.36	0.00	0.13	0.00	0.07
Average	0.05	1.83	0.00	24.71	34.04	22.70	2.70	13.49	0.00	0.39	0.00	0.09

**TABLE I-393
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Total PCBs**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	1.998	454.920	398.055	593.850	395.900	29.929	59.858	0.000	5.815	0.000	0.750
EE02	0.003	1.998	454.920	398.055	395.900	263.933	19.953	39.905	0.000	24.237	0.000	0.500
EE03	0.000	1.998	57.606	50.406	395.900	263.933	19.953	39.905	0.000	0.582	0.000	0.500
EE04	0.001	2.697	113.246	99.090	395.900	263.933	19.953	39.905	0.000	0.531	0.000	0.500
EE05	0.003	2.697	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.720	0.000	0.500
EE06	0.001	2.697	95.927	83.936	395.900	263.933	19.953	39.905	0.000	0.727	0.000	0.500
EE07	0.000	0.600	81.145	71.002	395.900	263.933	19.953	39.905	0.000	0.168	0.000	0.500
EE08	0.000	1.665	47.224	41.321	395.900	263.933	19.953	39.905	0.000	0.114	0.000	0.500
EE09	0.000	0.767	12.081	10.571	395.900	263.933	19.953	39.905	0.000	0.153	0.000	0.500
EE10	0.001	0.767	203.043	177.663	395.900	263.933	19.953	39.905	0.000	0.265	0.000	0.500
EW01	0.003	3.180	454.920	398.055	395.900	263.933	19.953	39.905	0.000	9.336	0.000	0.500
EW02	0.002	3.180	311.530	272.589	395.900	263.933	19.953	39.905	0.000	0.684	0.000	0.500
EW03	0.003	1.980	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.445	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	18	1.089	0.04	27.216	
EE02	18	0.935	0.04	23.384	
EE03	18	0.417	0.04	10.417	
EE04	18	0.688	0.04	12.211	
EE05	18	0.945	0.04	23.616	
EE06	18	0.467	0.04	11.672	
EE07	18	0.442	0.04	11.046	
EE08	18	0.402	0.04	10.058	
EE09	18	0.356	0.04	8.892	
EE10	18	0.595	0.04	14.883	
EW01	18	0.926	0.04	23.149	
EW02	18	0.739	0.04	18.467	
EW03	18	0.915	0.04	22.873	
--	18	0.000	0.04	0.000	
--	18	0.000	0.04	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-394
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Total PCBs**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	1.998	454.920	398.055	593.850	395.900	29.929	59.858	0.000	5.815	0.000	0.750
EE02	0.003	1.998	454.920	398.055	395.900	263.933	19.953	39.905	0.000	24.237	0.000	0.500
EE03	0.000	1.998	57.606	50.406	395.900	263.933	19.953	39.905	0.000	0.582	0.000	0.500
EE04	0.001	2.697	113.246	99.090	395.900	263.933	19.953	39.905	0.000	0.531	0.000	0.500
EE05	0.003	2.697	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.720	0.000	0.500
EE06	0.001	2.697	95.927	83.936	395.900	263.933	19.953	39.905	0.000	0.727	0.000	0.500
EE07	0.000	0.600	81.145	71.002	395.900	263.933	19.953	39.905	0.000	0.168	0.000	0.500
EE08	0.000	1.665	47.224	41.321	395.900	263.933	19.953	39.905	0.000	0.114	0.000	0.500
EE09	0.000	0.767	12.081	10.571	395.900	263.933	19.953	39.905	0.000	0.153	0.000	0.500
EE10	0.001	0.767	203.043	177.663	395.900	263.933	19.953	39.905	0.000	0.265	0.000	0.500
EW01	0.003	3.180	454.920	398.055	395.900	263.933	19.953	39.905	0.000	9.336	0.000	0.500
EW02	0.002	3.180	311.530	272.589	395.900	263.933	19.953	39.905	0.000	0.684	0.000	0.500
EW03	0.003	1.980	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.445	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	18	1.089	0.40	2.722	
EE02	18	0.935	0.40	2.338	
EE03	18	0.417	0.40	1.042	
EE04	18	0.488	0.40	1.221	
EE05	18	0.945	0.40	2.362	
EE06	18	0.467	0.40	1.167	
EE07	18	0.442	0.40	1.105	
EE08	18	0.402	0.40	1.006	
EE09	18	0.356	0.40	0.889	
EE10	18	0.595	0.40	1.488	
EW01	18	0.926	0.40	2.315	
EW02	18	0.739	0.40	1.847	
EW03	18	0.915	0.40	2.287	
--	18	0.000	0.40	0.000	
--	18	0.000	0.40	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

**TABLE I-395
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Total PCBs**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	3.465	454.920	398.055	791.800	527.867	39.905	79.810	0.000	10.790	0.000	1.000
EE02	0.003	3.465	454.920	398.055	395.900	263.933	19.953	39.905	0.000	26.737	0.000	0.500
EE03	0.000	3.465	79.821	69.844	395.900	263.933	19.953	39.905	0.000	0.813	0.000	0.500
EE04	0.001	3.880	117.151	102.507	395.900	263.933	19.953	39.905	0.000	0.540	0.000	0.500
EE05	0.003	3.880	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.760	0.000	0.500
EE06	0.001	3.880	124.333	108.791	395.900	263.933	19.953	39.905	0.000	0.261	0.000	0.500
EE07	0.001	0.825	130.045	113.789	395.900	263.933	19.953	39.905	0.000	0.195	0.000	0.500
EE08	0.000	1.765	78.733	68.892	395.900	263.933	19.953	39.905	0.000	0.260	0.000	0.500
EE09	0.000	0.965	20.628	18.049	395.900	263.933	19.953	39.905	0.000	0.345	0.000	0.500
EE10	0.002	0.965	271.440	237.510	395.900	263.933	19.953	39.905	0.000	14.259	0.000	0.500
EW01	0.003	3.730	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.900	0.000	0.500
EW02	0.003	3.730	422.414	369.612	395.900	263.933	19.953	39.905	0.000	0.497	0.000	0.500
EW03	0.003	2.330	454.920	398.055	395.900	263.933	19.953	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	18	1.266	0.04	31.656	
EE02	18	0.942	0.04	23.542	
EE03	18	0.449	0.04	11.224	
EE04	18	0.497	0.04	12.418	
EE05	18	0.948	0.04	23.701	
EE06	18	0.506	0.04	12.652	
EE07	18	0.504	0.04	12.598	
EE08	18	0.442	0.04	11.055	
EE09	18	0.367	0.04	9.177	
EE10	18	0.682	0.04	17.044	
EW01	18	0.932	0.04	23.294	
EW02	18	0.880	0.04	21.988	
EW03	18	0.916	0.04	22.899	
--	18	0.000	0.04	0.000	
--	18	0.000	0.04	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-396
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Total PCBs**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (mg/L)
EE01	0.003	3.465	454.920	398.055	791.800	527.867	39.905	79.810	0.000	10.790	0.000	1.000
EE02	0.003	3.465	454.920	398.055	395.900	263.933	19.953	39.905	0.000	26.737	0.000	0.500
EE03	0.000	3.465	79.821	69.844	395.900	263.933	19.953	39.905	0.000	0.813	0.000	0.500
EE04	0.001	3.880	117.151	102.507	395.900	263.933	19.953	39.905	0.000	0.540	0.000	0.500
EE05	0.003	3.880	454.920	398.055	395.900	263.933	19.953	39.905	0.000	32.760	0.000	0.500
EE06	0.001	3.880	124.333	108.791	395.900	263.933	19.953	39.905	0.000	0.920	0.000	0.500
EE07	0.001	0.825	130.045	113.789	395.900	263.933	19.953	39.905	0.000	0.261	0.000	0.500
EE08	0.000	1.765	78.733	68.892	395.900	263.933	19.953	39.905	0.000	0.195	0.000	0.500
EE09	0.000	0.965	20.628	18.049	395.900	263.933	19.953	39.905	0.000	0.260	0.000	0.500
EE10	0.002	0.965	271.440	237.510	395.900	263.933	19.953	39.905	0.000	0.345	0.000	0.500
EW01	0.003	3.730	454.920	398.055	395.900	263.933	19.953	39.905	0.000	14.259	0.000	0.500
EW02	0.003	3.730	422.414	369.612	395.900	263.933	19.953	39.905	0.000	0.900	0.000	0.500
EW03	0.003	2.330	454.920	398.055	395.900	263.933	19.953	39.905	0.000	0.497	0.000	0.500
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area		Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
	Use Factor	Use Factor			
EE01	18	18	1.266	0.40	3.166
EE02	18	18	0.942	0.40	2.354
EE03	18	18	0.449	0.40	1.122
EE04	18	18	0.497	0.40	1.242
EE05	18	18	0.948	0.40	2.370
EE06	18	18	0.506	0.40	1.265
EE07	18	18	0.504	0.40	1.260
EE08	18	18	0.442	0.40	1.105
EE09	18	18	0.367	0.40	0.918
EE10	18	18	0.682	0.40	1.704
EW01	18	18	0.932	0.40	2.329
EW02	18	18	0.880	0.40	2.199
EW03	18	18	0.916	0.40	2.290
--	18	18	0.000	0.40	0.000
--	18	18	0.000	0.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-397
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Raccoon exposed to Total PCBs

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	0.53	0.00	52.42	26.07	17.38	0.53	2.63	0.00	0.46	0.00	0.00
EE02	0.00	0.61	0.00	61.01	20.23	13.48	0.41	2.04	0.00	2.22	0.00	0.00
EE03	0.00	1.38	0.00	17.34	45.40	30.27	0.92	4.58	0.00	0.12	0.00	0.00
EE04	0.00	1.58	0.00	29.08	38.73	25.82	0.78	3.90	0.00	0.09	0.00	0.00
EE05	0.00	0.82	0.00	60.41	20.03	13.35	0.40	2.02	0.00	2.97	0.00	0.00
EE06	0.00	1.66	0.00	25.77	40.52	27.01	0.82	4.08	0.00	0.13	0.00	0.00
EE07	0.00	0.39	0.00	23.04	42.82	28.54	0.86	4.32	0.00	0.03	0.00	0.00
EE08	0.00	1.19	0.00	14.72	47.02	31.55	0.95	4.74	0.00	0.02	0.00	0.00
EE09	0.00	0.62	0.00	4.26	53.19	35.46	1.07	5.36	0.00	0.04	0.00	0.00
EE10	0.00	0.37	0.00	42.78	31.78	21.19	0.64	3.20	0.00	0.04	0.00	0.00
EW01	0.00	0.98	0.00	61.63	20.43	13.62	0.41	2.06	0.00	0.86	0.00	0.00
EW02	0.00	1.23	0.00	52.90	25.61	17.07	0.52	2.58	0.00	0.08	0.00	0.00
EW03	0.00	0.62	0.00	62.37	20.68	13.79	0.42	2.08	0.00	0.04	0.00	0.00
Average	0.00	0.92	0.00	39.06	33.27	22.18	0.67	3.35	0.00	0.55	0.00	0.00

TABLE I-398
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Aldrin

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.000	0.009	0.840	0.735	0.298	0.199	0.062	0.123	0.000	0.046	0.000	0.025
EE02	0.001	0.009	1.387	1.213	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.190	0.167	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.043	0.004	72.324	63.284	0.298	0.199	0.062	0.123	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.572	0.500	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.000	0.003	0.522	0.457	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE08	0.001	0.009	1.368	1.197	0.298	0.199	0.062	0.123	0.000	0.016	0.000	0.025
EE09	0.000	0.009	0.074	0.064	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE10	0.000	0.009	0.272	0.238	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	0.877	0.768	0.298	0.199	0.062	0.123	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.607	0.531	0.298	0.199	0.062	0.123	0.000	0.006	0.000	0.025
EW03	0.001	0.017	0.963	0.842	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT	
EE01	18	0.001	0.02	0.059	
EE02	18	0.002	0.02	0.089	
EE03	18	0.000	0.02	0.020	
EE04	18	0.001	0.02	0.023	
EE05	18	0.092	0.02	3.831	
EE06	18	0.001	0.02	0.044	
EE07	18	0.001	0.02	0.041	
EE08	18	0.002	0.02	0.086	
EE09	18	0.000	0.02	0.018	
EE10	18	0.001	0.02	0.028	
EW01	18	0.002	0.02	0.063	
EW02	18	0.001	0.02	0.047	
EW03	18	0.002	0.02	0.065	
-	18	0.000	0.02	0.000	
-	18	0.000	0.02	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-399
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Aldrin**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	0.840	0.735	0.298	0.199	0.062	0.123	0.000	0.046	0.000	0.025
EE02	0.001	0.009	1.387	1.213	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.190	0.167	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.043	0.004	72.324	63.284	0.298	0.199	0.062	0.123	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.572	0.500	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.000	0.003	0.522	0.457	0.298	0.199	0.062	0.123	0.000	0.005	0.000	0.025
EE08	0.001	0.009	1.368	1.197	0.298	0.199	0.062	0.123	0.000	0.016	0.000	0.025
EE09	0.000	0.009	0.074	0.064	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE10	0.000	0.009	0.272	0.238	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	0.877	0.768	0.298	0.199	0.062	0.123	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.607	0.531	0.298	0.199	0.062	0.123	0.000	0.006	0.000	0.025
EW03	0.001	0.017	0.963	0.842	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.001	0.24	0.006
EE02	18	0.002	0.24	0.009
EE03	18	0.000	0.24	0.002
EE04	18	0.001	0.24	0.002
EE05	18	0.092	0.24	0.383
EE06	18	0.001	0.24	0.004
EE07	18	0.001	0.24	0.004
EE08	18	0.002	0.24	0.009
EE09	18	0.000	0.24	0.002
EE10	18	0.001	0.24	0.003
EW01	18	0.002	0.24	0.006
EW02	18	0.001	0.24	0.005
EW03	18	0.002	0.24	0.007
--	18	0.000	0.24	0.000
--	18	0.000	0.24	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-400
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Aldirin**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.009	1.603	1.403	0.298	0.199	0.062	0.123	0.000	0.087	0.000	0.025
EE02	0.001	0.009	1.453	1.271	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.176	0.154	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.199	0.175	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.045	0.004	75.768	66.297	0.298	0.199	0.062	0.123	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.584	0.511	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.001	0.003	0.962	0.842	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE08	0.001	0.009	2.326	2.035	0.298	0.199	0.062	0.123	0.000	0.028	0.000	0.025
EE09	0.000	0.009	0.133	0.116	0.298	0.199	0.062	0.123	0.000	0.008	0.000	0.025
EE10	0.000	0.009	0.282	0.247	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	1.588	1.390	0.298	0.199	0.062	0.123	0.000	0.086	0.000	0.025
EW02	0.000	0.017	0.846	0.740	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EW03	0.001	0.017	0.977	0.855	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.002	0.02	0.101
EE02	18	0.002	0.02	0.093
EE03	18	0.001	0.02	0.023
EE04	18	0.001	0.02	0.024
EE05	18	0.096	0.02	4.011
EE06	18	0.001	0.02	0.045
EE07	18	0.002	0.02	0.064
EE08	18	0.003	0.02	0.137
EE09	18	0.001	0.02	0.021
EE10	18	0.001	0.02	0.029
EW01	18	0.002	0.02	0.101
EW02	18	0.001	0.02	0.059
EW03	18	0.002	0.02	0.066
--	18	0.000	0.02	0.000
--	18	0.000	0.02	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-401
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Aldrin**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (eg/L)
EE01	0.001	0.009	1.603	1.403	0.298	0.199	0.062	0.123	0.000	0.087	0.000	0.025
EE02	0.001	0.009	1.453	1.271	0.298	0.199	0.062	0.123	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.176	0.154	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.199	0.175	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
EE05	0.045	0.004	75.768	66.297	0.298	0.199	0.062	0.123	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.384	0.511	0.298	0.199	0.062	0.123	0.000	0.021	0.000	0.025
EE07	0.001	0.003	0.962	0.842	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EE08	0.001	0.009	2.326	2.035	0.298	0.199	0.062	0.123	0.000	0.028	0.000	0.025
EE09	0.000	0.009	0.133	0.116	0.298	0.199	0.062	0.123	0.000	0.008	0.000	0.025
EE10	0.000	0.009	0.282	0.247	0.298	0.199	0.062	0.123	0.000	0.002	0.000	0.025
EW01	0.001	0.017	1.588	1.390	0.298	0.199	0.062	0.123	0.000	0.086	0.000	0.025
EW02	0.000	0.017	0.846	0.740	0.298	0.199	0.062	0.123	0.000	0.009	0.000	0.025
EW03	0.001	0.017	0.977	0.855	0.298	0.199	0.062	0.123	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	18	0.002	0.24	0.010	
EE02	18	0.002	0.24	0.009	
EE03	18	0.001	0.24	0.002	
EE04	18	0.001	0.24	0.002	
EE05	18	0.096	0.24	0.401	
EE06	18	0.001	0.24	0.004	
EE07	18	0.002	0.24	0.006	
EE08	18	0.003	0.24	0.014	
EE09	18	0.001	0.24	0.002	
EE10	18	0.001	0.24	0.003	
EW01	18	0.002	0.24	0.018	
EW02	18	0.001	0.24	0.006	
EW03	18	0.002	0.24	0.007	
--	18	0.000	0.24	0.000	
--	18	0.000	0.24	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-402
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Raccoon exposed to Aldrin

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.13	1.71	0.00	73.81	9.97	6.65	0.82	4.12	0.00	2.77	0.00	0.03
EE02	0.14	1.14	0.00	81.03	6.63	4.42	0.55	2.74	0.00	3.35	0.00	0.02
EE03	0.05	5.19	0.00	28.26	30.28	20.19	2.50	12.51	0.00	0.94	0.00	0.08
EE04	0.07	2.16	0.00	42.40	25.27	16.85	2.09	10.44	0.00	0.65	0.00	0.07
EE05	0.17	0.01	0.00	98.68	0.15	0.10	0.01	0.06	0.00	0.80	0.00	0.00
EE06	0.12	1.15	0.00	67.88	13.47	8.98	1.11	5.56	0.00	1.70	0.00	0.04
EE07	0.11	1.00	0.00	66.94	14.55	9.70	1.20	6.01	0.00	0.44	0.00	0.04
EE08	0.14	1.18	0.00	83.10	6.89	4.59	0.57	2.85	0.00	0.66	0.00	0.02
EE09	0.04	5.69	0.00	21.51	33.20	22.13	2.74	13.72	0.00	0.89	0.00	0.09
EE10	0.09	3.60	0.00	50.53	21.05	14.03	1.74	8.69	0.00	0.22	0.00	0.06
EW01	0.12	3.24	0.00	73.20	9.46	6.31	0.78	3.91	0.00	2.94	0.00	0.03
EW02	0.12	4.33	0.00	67.67	12.65	8.43	1.05	5.23	0.00	0.48	0.00	0.03
EW03	0.13	3.10	0.00	76.91	9.06	6.04	0.75	3.74	0.00	0.23	0.00	0.02
Average	0.11	2.58	0.00	63.99	14.82	9.88	1.22	6.12	0.00	1.24	0.00	0.04

TABLE I-403
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to alpha-Chlordane

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	1.331	1.165	1.759	1.173	0.173	0.347	0.000	0.046	0.000	0.025
EE02	0.000	0.009	2.198	1.923	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.168	0.147	1.759	1.173	0.173	0.347	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.302	0.264	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.070	0.004	567.672	496.713	1.759	1.173	0.173	0.347	0.000	4.096	0.000	0.025
EE06	0.000	0.004	0.182	0.159	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.202	0.177	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.125	0.109	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.034	0.029	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE10	0.000	0.009	0.432	0.378	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	1.391	1.217	1.759	1.173	0.173	0.347	0.000	0.052	0.000	0.025
EW02	0.000	0.017	0.962	0.841	1.759	1.173	0.173	0.347	0.000	0.006	0.000	0.025
EW03	0.000	0.017	1.326	1.335	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.003	3.20	0.001
EE02	18	0.004	3.20	0.001
EE03	18	0.002	3.20	0.001
EE04	18	0.002	3.20	0.001
EE05	18	0.717	3.20	0.224
EE06	18	0.002	3.20	0.001
EE07	18	0.002	3.20	0.001
EE08	18	0.002	3.20	0.001
EE09	18	0.002	3.20	0.001
EE10	18	0.002	3.20	0.001
EW01	18	0.003	3.20	0.001
EW02	18	0.003	3.20	0.001
EW03	18	0.004	3.20	0.001
-	18	0.000	3.20	0.000
-	18	0.000	3.20	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-404
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to alpha-Chlordane

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	1.331	1.165	1.759	1.173	0.173	0.347	0.000	0.046	0.000	0.025
EE02	0.000	0.009	2.198	1.923	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.168	0.147	1.759	1.173	0.173	0.347	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.302	0.364	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.070	0.004	567.672	496.713	1.759	1.173	0.173	0.347	0.000	4.096	0.000	0.025
EE06	0.000	0.004	0.182	0.159	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.202	0.177	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.125	0.109	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.034	0.029	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE10	0.000	0.009	0.432	0.378	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	1.391	1.217	1.759	1.173	0.173	0.347	0.000	0.032	0.000	0.025
EW02	0.000	0.017	0.962	0.841	1.759	1.173	0.173	0.347	0.000	0.006	0.000	0.025
EW03	0.000	0.017	1.526	1.335	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	18	0.003	3.90	0.001	
EE02	18	0.004	3.90	0.001	
EE03	18	0.002	3.90	0.000	
EE04	18	0.002	3.90	0.001	
EE05	18	0.717	3.90	0.184	
EE06	18	0.002	3.90	0.000	
EE07	18	0.002	3.90	0.000	
EE08	18	0.002	3.90	0.000	
EE09	18	0.002	3.90	0.000	
EE10	18	0.002	3.90	0.001	
EW01	18	0.003	3.90	0.001	
EW02	18	0.003	3.90	0.001	
EW03	18	0.004	3.90	0.001	
-	18	0.000	3.90	0.000	
-	18	0.000	3.90	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-405
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to alpha-Chlordane**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	2.341	2.223	1.759	1.173	0.173	0.347	0.000	0.087	0.000	0.025
EE02	0.000	0.009	2.302	2.015	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.280	0.245	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.316	0.277	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.096	0.004	776.691	679.604	1.759	1.173	0.173	0.347	0.000	7.332	0.000	0.025
EE06	0.000	0.004	0.187	0.164	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.282	0.246	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.136	0.119	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.045	0.039	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE10	0.000	0.009	0.447	0.391	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	2.517	2.203	1.759	1.173	0.173	0.347	0.000	0.086	0.000	0.025
EW02	0.000	0.017	1.340	1.173	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EW03	0.000	0.017	1.549	1.355	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.005	3.20	0.002
EE02	18	0.005	3.20	0.001
EE03	18	0.002	3.20	0.001
EE04	18	0.002	3.20	0.001
EE05	18	0.983	3.20	0.307
EE06	18	0.002	3.20	0.001
EE07	18	0.002	3.20	0.001
EE08	18	0.002	3.20	0.001
EE09	18	0.002	3.20	0.001
EE10	18	0.002	3.20	0.001
EW01	18	0.005	3.20	0.002
EW02	18	0.003	3.20	0.001
EW03	18	0.004	3.20	0.001
--	18	0.000	3.20	0.000
--	18	0.000	3.20	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-406
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to alpha-Chlordane

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.000	0.009	2.541	2.223	1.759	1.173	0.173	0.347	0.000	0.087	0.000	0.025
EE02	0.000	0.009	2.302	2.015	1.759	1.173	0.173	0.347	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.280	0.245	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.316	0.277	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE05	0.096	0.004	776.691	679.604	1.759	1.173	0.173	0.347	0.000	7.332	0.000	0.025
EE06	0.000	0.004	0.187	0.164	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.282	0.246	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.136	0.119	1.759	1.173	0.173	0.347	0.000	0.001	0.000	0.025
EE09	0.000	0.009	0.045	0.039	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EE10	0.000	0.009	0.447	0.391	1.759	1.173	0.173	0.347	0.000	0.002	0.000	0.025
EW01	0.000	0.017	2.317	2.203	1.759	1.173	0.173	0.347	0.000	0.086	0.000	0.025
EW02	0.000	0.017	1.340	1.173	1.759	1.173	0.173	0.347	0.000	0.009	0.000	0.025
EW03	0.000	0.017	1.549	1.355	1.759	1.173	0.173	0.347	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.005	3.90	0.001
EE02	18	0.005	3.90	0.001
EE03	18	0.002	3.90	0.001
EE04	18	0.002	3.90	0.001
EE05	18	0.983	3.90	0.252
EE06	18	0.002	3.90	0.000
EE07	18	0.002	3.90	0.001
EE08	18	0.002	3.90	0.000
EE09	18	0.002	3.90	0.000
EE10	18	0.002	3.90	0.001
EW01	18	0.005	3.90	0.001
EW02	18	0.003	3.90	0.001
EW03	18	0.004	3.90	0.001
--	18	0.000	3.90	0.000
--	18	0.000	3.90	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-407
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Raccoon exposed to alpha-Chlordane

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.02	0.73	0.00	50.08	25.21	16.81	0.99	4.97	0.00	1.18	0.00	0.01
EE02	0.02	0.55	0.00	61.89	18.87	12.38	0.74	3.72	0.00	1.61	0.00	0.01
EE03	0.00	1.32	0.00	11.44	45.69	30.46	1.80	9.01	0.00	0.24	0.00	0.02
EE04	0.01	0.61	0.00	18.97	42.14	28.09	1.66	8.31	0.00	0.18	0.00	0.02
EE05	0.04	0.00	0.00	99.25	0.12	0.08	0.00	0.02	0.00	0.49	0.00	0.00
EE06	0.00	0.66	0.00	12.39	45.57	30.38	1.80	8.98	0.00	0.20	0.00	0.02
EE07	0.00	0.52	0.00	13.61	45.07	30.05	1.78	8.88	0.00	0.06	0.00	0.02
EE08	0.00	1.37	0.00	8.78	47.18	31.45	1.86	9.30	0.00	0.04	0.00	0.02
EE09	0.00	1.46	0.00	2.52	50.40	33.60	1.99	9.94	0.00	0.07	0.00	0.02
EE10	0.01	1.12	0.00	24.98	38.78	25.85	1.53	7.64	0.00	0.07	0.00	0.02
EW01	0.02	1.42	0.00	50.74	24.45	16.30	0.96	4.82	0.00	1.29	0.00	0.01
EW02	0.02	1.70	0.00	42.16	29.38	19.59	1.16	5.79	0.00	0.19	0.00	0.01
EW03	0.02	1.37	0.00	53.65	23.57	15.71	0.93	4.65	0.00	0.10	0.00	0.01
Average	0.01	0.99	0.00	34.65	33.57	22.38	1.32	6.62	0.00	0.44	0.00	0.02

TABLE I-408
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Dieldrin

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.019	0.017	0.164	0.144	0.001	0.001	0.001	0.002	0.000	0.088	0.000	0.050
EE02	0.033	0.017	0.280	0.245	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE03	0.002	0.017	0.021	0.018	0.001	0.001	0.001	0.002	0.000	0.010	0.000	0.050
EE04	0.004	0.008	0.038	0.033	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	16.280	0.000	0.061
EE06	0.003	0.008	0.023	0.020	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.003	0.007	0.025	0.022	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE08	0.021	0.017	0.175	0.153	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE09	0.000	0.017	0.004	0.004	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE10	0.006	0.017	0.054	0.047	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.020	0.033	0.173	0.151	0.001	0.001	0.001	0.002	0.000	0.100	0.000	0.050
EW02	0.014	0.033	0.120	0.105	0.001	0.001	0.001	0.002	0.000	0.012	0.000	0.061
EW03	0.023	0.033	0.195	0.171	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.000	0.01	0.040
EE02	18	0.001	0.01	0.066
EE03	18	0.000	0.01	0.009
EE04	18	0.000	0.01	0.010
EE05	18	0.024	0.01	2.414
EE06	18	0.000	0.01	0.007
EE07	18	0.000	0.01	0.007
EE08	18	0.000	0.01	0.036
EE09	18	0.000	0.01	0.006
EE10	18	0.000	0.01	0.014
EW01	18	0.000	0.01	0.047
EW02	18	0.000	0.01	0.031
EW03	18	0.000	0.01	0.043
--	18	0.000	0.01	0.000
--	18	0.000	0.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.560

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-409
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Dieldrin**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.019	0.017	0.164	0.144	0.001	0.001	0.001	0.002	0.000	0.088	0.000	0.050
EE02	0.033	0.017	0.280	0.245	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE03	0.002	0.017	0.021	0.018	0.001	0.001	0.001	0.002	0.000	0.010	0.000	0.050
EE04	0.004	0.008	0.038	0.033	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	16.280	0.000	0.061
EE06	0.003	0.008	0.023	0.020	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.003	0.007	0.025	0.022	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE08	0.021	0.017	0.175	0.153	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE09	0.000	0.017	0.004	0.004	0.001	0.001	0.001	0.002	0.000	0.002	0.000	0.050
EE10	0.006	0.017	0.054	0.047	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.020	0.033	0.173	0.151	0.001	0.001	0.001	0.002	0.000	0.100	0.000	0.050
EW02	0.014	0.033	0.120	0.105	0.001	0.001	0.001	0.002	0.000	0.012	0.000	0.061
EW03	0.023	0.033	0.195	0.171	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.000	0.10	0.004
EE02	18	0.001	0.10	0.007
EE03	18	0.000	0.10	0.001
EE04	18	0.000	0.10	0.001
EE05	18	0.024	0.10	0.241
EE06	18	0.000	0.10	0.001
EE07	18	0.000	0.10	0.001
EE08	18	0.000	0.10	0.004
EE09	18	0.000	0.10	0.001
EE10	18	0.000	0.10	0.001
EW01	18	0.000	0.10	0.005
EW02	18	0.000	0.10	0.003
EW03	18	0.000	0.10	0.004
--	18	0.000	0.10	0.000
--	18	0.000	0.10	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-410
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Dieldrin**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.037	0.017	0.313	0.273	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE02	0.035	0.017	0.297	0.260	0.001	0.001	0.001	0.002	0.000	0.167	0.000	0.050
EE03	0.004	0.017	0.035	0.031	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE04	0.005	0.008	0.039	0.034	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	17.940	0.000	0.072
EE06	0.003	0.008	0.024	0.021	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.004	0.007	0.036	0.031	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE08	0.039	0.017	0.336	0.294	0.001	0.001	0.001	0.002	0.000	0.033	0.000	0.050
EE09	0.001	0.017	0.006	0.005	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE10	0.007	0.017	0.056	0.049	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.037	0.033	0.313	0.274	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EW02	0.019	0.033	0.166	0.145	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.072
EW03	0.024	0.033	0.200	0.175	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.001	0.01	0.071
EE02	18	0.001	0.01	0.069
EE03	18	0.000	0.01	0.012
EE04	18	0.000	0.01	0.010
EE05	18	0.026	0.01	2.355
EE06	18	0.000	0.01	0.007
EE07	18	0.000	0.01	0.008
EE08	18	0.001	0.01	0.064
EE09	18	0.000	0.01	0.006
EE10	18	0.000	0.01	0.015
EW01	18	0.001	0.01	0.076
EW02	18	0.000	0.01	0.039
EW03	18	0.000	0.01	0.044
-	18	0.000	0.01	0.000
-	18	0.000	0.01	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

TABLE I-411
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Dieldrin

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/ Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.037	0.017	0.313	0.273	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EE02	0.035	0.017	0.297	0.260	0.001	0.001	0.001	0.002	0.000	0.167	0.000	0.050
EE03	0.004	0.017	0.035	0.031	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.050
EE04	0.005	0.008	0.039	0.034	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE05	0.727	0.008	6.188	5.415	0.002	0.001	0.001	0.002	0.000	17.940	0.000	0.072
EE06	0.003	0.008	0.024	0.021	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
EE07	0.004	0.007	0.036	0.031	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE08	0.039	0.017	0.336	0.294	0.001	0.001	0.001	0.002	0.000	0.033	0.000	0.050
EE09	0.001	0.017	0.006	0.005	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EE10	0.007	0.017	0.056	0.049	0.001	0.001	0.001	0.002	0.000	0.003	0.000	0.050
EW01	0.037	0.033	0.313	0.274	0.001	0.001	0.001	0.002	0.000	0.166	0.000	0.050
EW02	0.019	0.033	0.166	0.145	0.001	0.001	0.001	0.002	0.000	0.017	0.000	0.072
EW03	0.024	0.033	0.200	0.175	0.001	0.001	0.001	0.002	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	18	0.001	0.10	0.007	
EE02	18	0.001	0.10	0.007	
EE03	18	0.000	0.10	0.001	
EE04	18	0.000	0.10	0.001	
EE05	18	0.026	0.10	0.236	
EE06	18	0.000	0.10	0.001	
EE07	18	0.000	0.10	0.001	
EE08	18	0.001	0.10	0.006	
EE09	18	0.000	0.10	0.001	
EE10	18	0.000	0.10	0.001	
EW01	18	0.001	0.10	0.008	
EW02	18	0.000	0.10	0.004	
EW03	18	0.000	0.10	0.004	
--	18	0.000	0.10	0.000	
--	18	0.000	0.10	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-412
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Raccoon exposed to Dieldrin

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	17.45	11.79	0.00	51.28	0.15	0.10	0.04	0.20	0.00	18.80	0.00	0.19
EE02	18.04	7.13	0.00	53.03	0.09	0.06	0.02	0.12	0.00	21.39	0.00	0.12
EE03	9.58	50.24	0.00	28.15	0.65	0.43	0.17	0.84	0.00	9.12	0.00	0.82
EE04	16.77	23.70	0.00	49.30	0.63	0.42	0.16	0.82	0.00	7.40	0.00	0.80
EE05	10.83	0.09	0.00	31.83	0.00	0.00	0.00	0.00	0.00	57.23	0.00	0.00
EE06	13.79	31.94	0.00	40.55	0.85	0.57	0.22	1.11	0.00	9.90	0.00	1.07
EE07	16.36	28.16	0.00	48.10	0.92	0.62	0.24	1.20	0.00	3.24	0.00	1.17
EE08	20.80	13.16	0.00	61.13	0.17	0.11	0.04	0.22	0.00	4.15	0.00	0.21
EE09	3.02	79.88	0.00	8.88	1.03	0.69	0.27	1.34	0.00	3.59	0.00	1.30
EE10	16.01	33.02	0.00	47.07	0.43	0.28	0.11	0.55	0.00	1.98	0.00	0.54
EW01	15.59	19.98	0.00	45.83	0.13	0.09	0.03	0.17	0.00	18.02	0.00	0.16
EW02	16.55	30.47	0.00	48.64	0.20	0.13	0.05	0.26	0.00	3.41	0.00	0.30
EW03	19.25	21.89	0.00	56.59	0.14	0.09	0.04	0.18	0.00	1.64	0.00	0.18
Average	14.93	27.03	0.00	43.87	0.41	0.28	0.11	0.54	0.00	12.30	0.00	0.53

**TABLE I-413
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Heptachlor**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.001	0.078	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.078	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.078	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.078	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.078	91.233	79.847	0.066	0.044	0.020	0.041	0.000	2.964	0.000	0.025
EE06	0.001	0.078	0.352	0.308	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE07	0.001	0.013	0.403	0.352	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EE08	0.003	0.042	1.097	0.960	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE09	0.000	0.042	0.025	0.022	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.007	0.042	2.510	2.196	0.066	0.044	0.020	0.041	0.000	0.026	0.000	0.025
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.001	0.10	0.010
EE02	18	0.001	0.10	0.014
EE03	18	0.000	0.10	0.004
EE04	18	0.000	0.10	0.004
EE05	18	0.118	0.10	1.182
EE06	18	0.001	0.10	0.008
EE07	18	0.001	0.10	0.006
EE08	18	0.002	0.10	0.016
EE09	18	0.000	0.10	0.002
EE10	18	0.003	0.10	0.034
EW01	18	0.001	0.10	0.008
EW02	18	0.001	0.10	0.006
EW03	18	0.001	0.10	0.009
--	18	0.000	0.10	0.000
--	18	0.000	0.10	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-414
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Heptachlor**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.078	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.078	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.078	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.078	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.078	91.253	79.847	0.066	0.044	0.020	0.041	0.000	2.964	0.000	0.025
EE06	0.001	0.078	0.352	0.308	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE07	0.001	0.013	0.403	0.352	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EE08	0.003	0.042	1.097	0.960	0.066	0.044	0.020	0.041	0.000	0.021	0.000	0.025
EE09	0.000	0.042	0.025	0.022	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.007	0.042	2.510	2.196	0.066	0.044	0.020	0.041	0.000	0.026	0.000	0.025
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.001	1.00	0.001
EE02	18	0.001	1.00	0.001
EE03	18	0.000	1.00	0.000
EE04	18	0.000	1.00	0.000
EE05	18	0.118	1.00	0.118
EE06	18	0.001	1.00	0.001
EE07	18	0.001	1.00	0.001
EE08	18	0.002	1.00	0.002
EE09	18	0.000	1.00	0.000
EE10	18	0.003	1.00	0.003
EW01	18	0.001	1.00	0.001
EW02	18	0.001	1.00	0.001
EW03	18	0.001	1.00	0.001
-	18	0.000	1.00	0.000
-	18	0.000	1.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-415
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Heptachlor**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	0.081	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.081	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.081	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.081	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.081	91.253	79.847	0.066	0.044	0.020	0.041	0.000	3.354	0.000	0.025
EE06	0.002	0.081	0.637	0.557	0.066	0.044	0.020	0.041	0.000	0.037	0.000	0.025
EE07	0.002	0.016	0.758	0.664	0.066	0.044	0.020	0.041	0.000	0.012	0.000	0.025
EE08	0.006	0.042	2.143	1.875	0.066	0.044	0.020	0.041	0.000	0.042	0.000	0.025
EE09	0.000	0.042	0.033	0.029	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.009	0.042	3.552	3.108	0.066	0.044	0.020	0.041	0.000	0.036	0.000	0.025
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.002	0.10	0.016
EE02	18	0.001	0.10	0.015
EE03	18	0.000	0.10	0.005
EE04	18	0.000	0.10	0.005
EE05	18	0.119	0.10	1.185
EE06	18	0.001	0.10	0.011
EE07	18	0.001	0.10	0.011
EE08	18	0.003	0.10	0.029
EE09	18	0.000	0.10	0.002
EE10	18	0.003	0.10	0.047
EW01	18	0.001	0.10	0.014
EW02	18	0.001	0.10	0.008
EW03	18	0.001	0.10	0.009
--	18	0.000	0.10	0.000
--	18	0.000	0.10	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-416
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Heptachlor**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.003	0.081	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.081	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.081	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.081	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.238	0.081	91.253	79.847	0.066	0.044	0.020	0.041	0.000	3.354	0.000	0.025
EE06	0.002	0.081	0.637	0.557	0.066	0.044	0.020	0.041	0.000	0.037	0.000	0.025
EE07	0.002	0.016	0.758	0.664	0.066	0.044	0.020	0.041	0.000	0.012	0.000	0.025
EE08	0.006	0.042	2.143	1.875	0.066	0.044	0.020	0.041	0.000	0.042	0.000	0.025
EE09	0.000	0.042	0.033	0.029	0.066	0.044	0.020	0.041	0.000	0.003	0.000	0.025
EE10	0.009	0.042	3.552	3.108	0.066	0.044	0.020	0.041	0.000	0.036	0.000	0.025
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.002	1.00	0.002
EE02	18	0.001	1.00	0.001
EE03	18	0.000	1.00	0.000
EE04	18	0.000	1.00	0.000
EE05	18	0.119	1.00	0.119
EE06	18	0.001	1.00	0.001
EE07	18	0.001	1.00	0.001
EE08	18	0.003	1.00	0.003
EE09	18	0.000	1.00	0.000
EE10	18	0.005	1.00	0.005
EW01	18	0.001	1.00	0.001
EW02	18	0.001	1.00	0.001
EW03	18	0.001	1.00	0.001
--	18	0.000	1.00	0.000
--	18	0.000	1.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-417
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
for Raccoon exposed to Heptachlor

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.49	22.85	0.00	64.85	3.21	2.14	0.40	1.99	0.00	4.03	0.00	0.04
EE02	0.55	15.67	0.00	73.42	2.20	1.47	0.27	1.36	0.00	5.03	0.00	0.03
EE03	0.16	58.12	0.00	20.80	8.17	5.44	1.01	5.06	0.00	1.14	0.00	0.10
EE04	0.24	49.87	0.00	32.09	7.01	4.67	0.87	4.34	0.00	0.82	0.00	0.09
EE05	0.73	0.19	0.00	96.87	0.03	0.02	0.00	0.02	0.00	2.15	0.00	0.00
EE06	0.44	29.33	0.00	57.91	4.12	2.75	0.51	2.55	0.00	2.34	0.00	0.05
EE07	0.61	6.08	0.00	80.33	5.00	3.33	0.62	3.10	0.00	0.88	0.00	0.06
EE08	0.65	7.43	0.00	86.01	1.96	1.31	0.24	1.22	0.00	1.15	0.00	0.02
EE09	0.10	51.96	0.00	13.74	13.73	9.15	1.70	8.50	0.00	0.95	0.00	0.17
EE10	0.70	3.51	0.00	92.89	0.93	0.62	0.11	0.57	0.00	0.66	0.00	0.01
EW01	0.60	5.82	0.00	79.20	3.75	2.50	0.46	2.32	0.00	5.29	0.00	0.05
EW02	0.58	8.23	0.00	77.42	5.31	3.54	0.66	3.29	0.00	0.92	0.00	0.07
EW03	0.64	5.66	0.00	84.45	3.65	2.43	0.45	2.26	0.00	0.42	0.00	0.04
Average	0.50	20.36	0.00	66.15	4.54	3.03	0.56	2.81	0.00	1.98	0.00	0.06

TABLE I-418
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Heptachlor epoxide

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.001	0.009	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.009	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.113	0.004	43.580	38.132	0.066	0.044	0.020	0.041	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.069	0.061	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.077	0.067	0.066	0.044	0.020	0.041	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.047	0.041	0.217	0.145	0.067	0.134	0.000	0.001	0.000	0.083
EE09	0.000	0.009	0.013	0.011	0.162	0.108	0.050	0.100	0.000	0.001	0.000	0.062
EE10	0.000	0.009	0.164	0.144	0.112	0.075	0.035	0.069	0.000	0.002	0.000	0.043
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.566	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.001	0.13	0.006
EE02	18	0.001	0.13	0.010
EE03	18	0.000	0.13	0.001
EE04	18	0.000	0.13	0.002
EE05	18	0.036	0.13	0.447
EE06	18	0.000	0.13	0.001
EE07	18	0.000	0.13	0.001
EE08	18	0.000	0.13	0.003
EE09	18	0.000	0.13	0.002
EE10	18	0.000	0.13	0.003
EW01	18	0.001	0.13	0.007
EW02	18	0.001	0.13	0.005
EW03	18	0.001	0.13	0.007
--	18	0.000	0.13	0.000
--	18	0.000	0.13	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-419
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Heptachlor epoxide

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.001	0.009	0.506	0.443	0.066	0.044	0.020	0.041	0.000	0.046	0.000	0.025
EE02	0.002	0.009	0.836	0.731	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.064	0.056	0.066	0.044	0.020	0.041	0.000	0.005	0.000	0.025
EE04	0.000	0.004	0.115	0.100	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.113	0.004	43.580	38.132	0.066	0.044	0.020	0.041	0.000	0.859	0.000	0.025
EE06	0.000	0.004	0.069	0.061	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.077	0.067	0.066	0.044	0.020	0.041	0.000	0.001	0.000	0.025
EE08	0.000	0.009	0.047	0.041	0.217	0.145	0.067	0.134	0.000	0.001	0.000	0.083
EE09	0.000	0.009	0.013	0.011	0.162	0.108	0.050	0.100	0.000	0.001	0.000	0.062
EE10	0.000	0.009	0.164	0.144	0.112	0.075	0.035	0.069	0.000	0.002	0.000	0.043
EW01	0.001	0.017	0.529	0.463	0.066	0.044	0.020	0.041	0.000	0.052	0.000	0.025
EW02	0.001	0.017	0.366	0.320	0.066	0.044	0.020	0.041	0.000	0.006	0.000	0.025
EW03	0.002	0.017	0.580	0.508	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.001	0.18	0.004
EE02	18	0.001	0.18	0.007
EE03	18	0.000	0.18	0.001
EE04	18	0.000	0.18	0.001
EE05	18	0.056	0.18	0.319
EE06	18	0.000	0.18	0.001
EE07	18	0.000	0.18	0.001
EE08	18	0.000	0.18	0.002
EE09	18	0.000	0.18	0.001
EE10	18	0.000	0.18	0.002
EW01	18	0.001	0.18	0.005
EW02	18	0.001	0.18	0.003
EW03	18	0.001	0.18	0.005
--	18	0.000	0.18	0.000
--	18	0.000	0.18	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-420
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Heptachlor epoxide

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.003	0.009	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.009	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.119	0.004	45.655	39.948	0.066	0.044	0.020	0.041	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.071	0.062	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.107	0.094	0.066	0.044	0.020	0.041	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.052	0.045	0.368	0.246	0.114	0.228	0.000	0.001	0.000	0.140
EE09	0.000	0.009	0.017	0.015	0.258	0.172	0.080	0.160	0.000	0.002	0.000	0.098
EE10	0.000	0.009	0.170	0.149	0.158	0.105	0.049	0.098	0.000	0.002	0.000	0.060
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.001	0.13	0.011
EE02	18	0.001	0.13	0.010
EE03	18	0.000	0.13	0.002
EE04	18	0.000	0.13	0.002
EE05	18	0.059	0.13	0.468
EE06	18	0.000	0.13	0.001
EE07	18	0.000	0.13	0.002
EE08	18	0.001	0.13	0.004
EE09	18	0.000	0.13	0.003
EE10	18	0.000	0.13	0.003
EW01	18	0.001	0.13	0.011
EW02	18	0.001	0.13	0.006
EW03	18	0.001	0.13	0.007
--	18	0.000	0.13	0.000
--	18	0.000	0.13	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-421
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Heptachlor epoxide**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EEO1	0.003	0.009	0.966	0.845	0.066	0.044	0.020	0.041	0.000	0.087	0.000	0.025
EE02	0.002	0.009	0.875	0.766	0.066	0.044	0.020	0.041	0.000	0.084	0.000	0.025
EE03	0.000	0.009	0.106	0.093	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EE04	0.000	0.004	0.120	0.105	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE05	0.119	0.004	45.655	39.948	0.066	0.044	0.020	0.041	0.000	0.860	0.000	0.025
EE06	0.000	0.004	0.071	0.062	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
EE07	0.000	0.003	0.107	0.094	0.066	0.044	0.020	0.041	0.000	0.002	0.000	0.025
EE08	0.000	0.009	0.052	0.045	0.368	0.246	0.114	0.228	0.000	0.001	0.000	0.140
EE09	0.000	0.009	0.017	0.015	0.258	0.172	0.080	0.160	0.000	0.002	0.000	0.098
EE10	0.000	0.009	0.170	0.149	0.158	0.105	0.049	0.098	0.000	0.002	0.000	0.060
EW01	0.002	0.017	0.957	0.837	0.066	0.044	0.020	0.041	0.000	0.086	0.000	0.025
EW02	0.001	0.017	0.510	0.446	0.066	0.044	0.020	0.041	0.000	0.009	0.000	0.025
EW03	0.002	0.017	0.589	0.515	0.066	0.044	0.020	0.041	0.000	0.004	0.000	0.025
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EEO1	18	0.001	0.18	0.008	
EE02	18	0.001	0.18	0.007	
EE03	18	0.000	0.18	0.001	
EE04	18	0.000	0.18	0.001	
EE05	18	0.059	0.18	0.334	
EE06	18	0.000	0.18	0.001	
EE07	18	0.000	0.18	0.001	
EE08	18	0.001	0.18	0.003	
EE09	18	0.000	0.18	0.002	
EE10	18	0.000	0.18	0.002	
EW01	18	0.001	0.18	0.008	
EW02	18	0.001	0.18	0.004	
EW03	18	0.001	0.18	0.005	
--	18	0.000	0.18	0.000	
--	18	0.000	0.18	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-422
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Raccoon exposed to Heptachlor epoxide

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.61	3.13	0.00	81.43	4.03	2.69	0.50	2.50	0.00	5.07	0.00	0.05
EE02	0.64	1.98	0.00	85.33	2.56	1.71	0.32	1.58	0.00	5.85	0.00	0.03
EE03	0.33	13.14	0.00	43.14	16.94	11.29	2.10	10.49	0.00	2.37	0.00	0.21
EE04	0.46	5.14	0.00	60.73	13.26	8.84	1.64	8.22	0.00	1.55	0.00	0.16
EE05	0.74	0.02	0.00	97.79	0.06	0.04	0.01	0.03	0.00	1.32	0.00	0.00
EE06	0.36	6.79	0.00	48.42	17.51	11.67	2.17	10.85	0.00	2.01	0.00	0.21
EE07	0.39	5.29	0.00	52.39	17.06	11.37	2.11	10.57	0.00	0.60	0.00	0.21
EE08	0.13	7.25	0.00	17.68	30.85	20.56	3.82	19.11	0.00	0.22	0.00	0.38
EE09	0.05	10.65	0.00	6.98	33.78	22.52	4.19	20.93	0.00	0.48	0.00	0.41
EE10	0.43	6.72	0.00	56.76	14.73	9.82	1.83	9.13	0.00	0.41	0.00	0.18
EW01	0.60	5.82	0.00	79.20	3.75	2.50	0.46	2.32	0.00	5.29	0.00	0.05
EW02	0.58	8.23	0.00	77.42	5.31	3.54	0.66	3.29	0.00	0.92	0.00	0.07
EW03	0.64	5.66	0.00	84.45	3.65	2.43	0.45	2.26	0.00	0.42	0.00	0.04
Average	0.46	6.14	0.00	60.90	12.58	8.38	1.56	7.79	0.00	2.04	0.00	0.15

TABLE I-423
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Endosulfan Sulfate

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.009	0.017	0.385	0.337	0.010	0.006	0.006	0.011	0.000	0.088	0.000	0.050
EE02	0.016	0.017	0.657	0.575	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE03	0.001	0.017	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.011	0.000	0.050
EE04	0.002	0.008	0.089	0.078	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.002	0.008	42.465	37.157	0.010	0.006	0.006	0.011	0.000	2.126	0.000	0.050
EE06	0.001	0.008	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.001	0.007	0.059	0.052	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE08	0.001	0.017	0.037	0.032	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.010	0.009	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE10	0.003	0.017	0.126	0.110	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.010	0.033	0.406	0.355	0.010	0.006	0.006	0.011	0.000	0.100	0.000	0.050
EW02	0.007	0.033	0.282	0.247	0.010	0.006	0.006	0.011	0.000	0.012	0.000	0.050
EW03	0.011	0.033	0.457	0.400	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.001	2.40	0.000
EE02	18	0.001	2.40	0.000
EE03	18	0.000	2.40	0.000
EE04	18	0.000	2.40	0.000
EE05	18	0.039	2.40	0.024
EE06	18	0.000	2.40	0.000
EE07	18	0.000	2.40	0.000
EE08	18	0.000	2.40	0.000
EE09	18	0.000	2.40	0.000
EE10	18	0.000	2.40	0.000
EW01	18	0.001	2.40	0.000
EW02	18	0.000	2.40	0.000
EW03	18	0.001	2.40	0.000
--	18	0.000	2.40	0.000
--	18	0.000	2.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-424
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Endosulfan Sulfate

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.009	0.017	0.385	0.337	0.010	0.006	0.006	0.011	0.000	0.088	0.000	0.050
EE02	0.016	0.017	0.657	0.575	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE03	0.001	0.017	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.011	0.000	0.050
EE04	0.002	0.008	0.089	0.078	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.002	0.008	42.465	37.157	0.010	0.006	0.006	0.011	0.000	2.126	0.000	0.050
EE06	0.001	0.008	0.054	0.048	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.001	0.007	0.059	0.052	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE08	0.001	0.017	0.037	0.032	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.010	0.009	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE10	0.003	0.017	0.126	0.110	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.010	0.033	0.406	0.355	0.010	0.006	0.006	0.011	0.000	0.100	0.000	0.050
EW02	0.007	0.033	0.282	0.247	0.010	0.006	0.006	0.011	0.000	0.012	0.000	0.050
EW03	0.011	0.033	0.457	0.400	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON MEAN CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	18	0.001	5.00	0.000	
EE02	18	0.001	5.00	0.000	
EE03	18	0.000	5.00	0.000	
EE04	18	0.000	5.00	0.000	
EE05	18	0.059	5.00	0.012	
EE06	18	0.000	5.00	0.000	
EE07	18	0.000	5.00	0.000	
EE08	18	0.000	5.00	0.000	
EE09	18	0.000	5.00	0.000	
EE10	18	0.000	5.00	0.000	
EW01	18	0.001	5.00	0.000	
EW02	18	0.000	5.00	0.000	
EW03	18	0.001	5.00	0.000	
--	18	0.000	5.00	0.000	
--	18	0.000	5.00	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-425
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Endosulfan Sulfate**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.017	0.017	0.733	0.641	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE02	0.016	0.017	0.697	0.610	0.010	0.006	0.006	0.011	0.000	0.167	0.000	0.050
EE03	0.002	0.017	0.083	0.072	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EE04	0.002	0.008	0.091	0.080	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.168	0.008	49.486	43.300	0.010	0.006	0.006	0.011	0.000	2.614	0.000	0.050
EE06	0.001	0.008	0.057	0.050	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.002	0.007	0.083	0.073	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE08	0.001	0.017	0.039	0.034	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.013	0.012	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE10	0.003	0.017	0.131	0.114	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.017	0.033	0.734	0.642	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EW02	0.009	0.033	0.388	0.340	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EW03	0.011	0.033	0.469	0.410	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.001	2.40	0.000
EE02	18	0.001	2.40	0.000
EE03	18	0.000	2.40	0.000
EE04	18	0.000	2.40	0.000
EE05	18	0.069	2.40	0.079
EE06	18	0.000	2.40	0.000
EE07	18	0.000	2.40	0.000
EE08	18	0.000	2.40	0.000
EE09	18	0.000	2.40	0.000
EE10	18	0.000	2.40	0.000
EW01	18	0.001	2.40	0.001
EW02	18	0.001	2.40	0.000
EW03	18	0.001	2.40	0.000
--	18	0.000	2.40	0.000
--	18	0.000	2.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-426
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Endosulfan Sulfate

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.017	0.017	0.733	0.641	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EE02	0.016	0.017	0.697	0.610	0.010	0.006	0.006	0.011	0.000	0.167	0.000	0.050
EE03	0.002	0.017	0.083	0.072	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EE04	0.002	0.008	0.091	0.080	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE05	1.168	0.008	49.486	43.300	0.010	0.006	0.006	0.011	0.000	2.614	0.000	0.050
EE06	0.001	0.008	0.057	0.050	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
EE07	0.002	0.007	0.083	0.073	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE08	0.001	0.017	0.039	0.034	0.010	0.006	0.006	0.011	0.000	0.002	0.000	0.050
EE09	0.000	0.017	0.013	0.012	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EE10	0.003	0.017	0.131	0.114	0.010	0.006	0.006	0.011	0.000	0.003	0.000	0.050
EW01	0.017	0.033	0.734	0.642	0.010	0.006	0.006	0.011	0.000	0.166	0.000	0.050
EW02	0.009	0.033	0.388	0.340	0.010	0.006	0.006	0.011	0.000	0.017	0.000	0.050
EW03	0.011	0.033	0.469	0.410	0.010	0.006	0.006	0.011	0.000	0.008	0.000	0.050
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	18	0.001	5.00	0.000	
EE02	18	0.001	5.00	0.000	
EE03	18	0.000	5.00	0.000	
EE04	18	0.000	5.00	0.000	
EE05	18	0.069	5.00	0.014	
EE06	18	0.000	5.00	0.000	
EE07	18	0.000	5.00	0.000	
EE08	18	0.000	5.00	0.000	
EE09	18	0.000	5.00	0.000	
EE10	18	0.000	5.00	0.000	
EW01	18	0.001	5.00	0.000	
EW02	18	0.001	5.00	0.000	
EW03	18	0.001	5.00	0.000	
--	18	0.000	5.00	0.000	
--	18	0.000	5.00	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-427
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Raccoon exposed to Endosulfan Sulfate

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	5.05	7.24	0.00	73.87	0.71	0.47	0.16	0.82	0.00	11.55	0.00	0.12
EE02	5.19	4.36	0.00	76.00	0.43	0.28	0.10	0.50	0.00	13.07	0.00	0.07
EE03	3.23	32.70	0.00	47.24	3.19	2.13	0.74	3.72	0.00	6.52	0.00	0.53
EE04	4.65	13.94	0.00	67.99	2.80	1.87	0.65	3.27	0.00	4.35	0.00	0.47
EE05	6.19	0.04	0.00	90.64	0.01	0.01	0.00	0.01	0.00	3.10	0.00	0.00
EE06	3.96	19.46	0.00	57.91	3.91	2.61	0.91	4.56	0.00	6.03	0.00	0.65
EE07	4.42	16.15	0.00	64.66	4.00	2.66	0.93	4.66	0.00	1.86	0.00	0.67
EE08	2.78	42.03	0.00	40.68	4.10	2.73	0.95	4.77	0.00	1.26	0.00	0.69
EE09	1.09	61.04	0.00	15.90	5.95	3.97	1.39	6.93	0.00	2.74	0.00	1.00
EE10	4.62	20.22	0.00	67.58	1.97	1.31	0.46	2.30	0.00	1.21	0.00	0.33
EW01	4.71	12.81	0.00	68.91	0.62	0.42	0.15	0.73	0.00	11.55	0.00	0.10
EW02	4.85	18.98	0.00	71.05	0.93	0.62	0.22	1.08	0.00	2.12	0.00	0.15
EW03	5.37	12.98	0.00	78.63	0.63	0.42	0.15	0.74	0.00	0.97	0.00	0.11
Average	4.32	20.15	0.00	63.16	2.25	1.50	0.52	2.62	0.00	5.10	0.00	0.38

**TABLE I-428
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Benzidine**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	1.349	1.250	8.963	8.963	0.175	0.175	0.175	0.175	0.000	3.888	0.000	25.000
EE02	2.168	1.250	14.408	14.408	0.175	0.175	0.175	0.175	0.000	6.404	0.000	25.000
EE03	1.533	1.250	10.188	10.188	0.175	0.175	0.175	0.175	0.000	3.767	0.000	25.000
EE04	1.080	5.000	7.174	7.174	0.175	0.175	0.175	0.175	0.000	1.243	0.000	25.000
EE05	15.128	5.000	100.527	100.527	0.175	0.175	0.175	0.175	0.000	9.355	0.000	25.000
EE06	2.020	5.000	13.423	13.423	0.175	0.175	0.175	0.175	0.000	3.703	0.000	25.000
EE07	2.349	5.000	15.607	15.607	0.175	0.175	0.175	0.175	0.000	1.244	0.000	25.000
EE08	4.473	5.000	29.725	29.725	0.175	0.175	0.175	0.175	0.000	2.495	0.000	25.000
EE09	0.406	5.000	2.700	2.700	0.175	0.175	0.175	0.175	0.000	1.263	0.000	25.000
EE10	3.878	5.000	25.771	25.771	0.175	0.175	0.175	0.175	0.000	1.254	0.000	25.000
EW01	0.692	5.000	4.599	4.599	0.175	0.175	0.175	0.175	0.000	2.520	0.000	25.000
EW02	2.261	5.000	15.027	15.027	0.175	0.175	0.175	0.175	0.000	1.234	0.000	25.000
EW03	5.723	5.000	38.033	38.033	0.175	0.175	0.175	0.175	0.000	1.274	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.025	16.00	0.002
EE02	18	0.038	16.00	0.002
EE03	18	0.028	16.00	0.002
EE04	18	0.030	16.00	0.002
EE05	18	0.222	16.00	0.014
EE06	18	0.045	16.00	0.003
EE07	18	0.047	16.00	0.003
EE08	18	0.076	16.00	0.005
EE09	18	0.021	16.00	0.001
EE10	18	0.067	16.00	0.004
EW01	18	0.026	16.00	0.002
EW02	18	0.046	16.00	0.003
EW03	18	0.091	16.00	0.006
--	18	0.000	16.00	0.000
--	18	0.000	16.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-429
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Benzidine

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	1.349	1.250	8.963	8.963	0.175	0.175	0.175	0.175	0.000	3.888	0.000	25.000
EE02	2.168	1.250	14.408	14.408	0.175	0.175	0.175	0.175	0.000	6.404	0.000	25.000
EE03	1.533	1.250	10.188	10.188	0.175	0.175	0.175	0.175	0.000	3.767	0.000	25.000
EE04	1.080	5.000	7.174	7.174	0.175	0.175	0.175	0.175	0.000	1.243	0.000	25.000
EE05	15.128	5.000	100.527	100.527	0.175	0.175	0.175	0.175	0.000	9.355	0.000	25.000
EE06	2.020	5.000	13.423	13.423	0.175	0.175	0.175	0.175	0.000	3.703	0.000	25.000
EE07	2.349	5.000	15.607	15.607	0.175	0.175	0.175	0.175	0.000	1.244	0.000	25.000
EE08	4.473	5.000	29.725	29.725	0.175	0.175	0.175	0.175	0.000	2.495	0.000	25.000
EE09	0.406	5.000	2.700	2.700	0.175	0.175	0.175	0.175	0.000	1.263	0.000	25.000
EE10	3.878	5.000	25.771	25.771	0.175	0.175	0.175	0.175	0.000	1.254	0.000	25.000
EW01	0.692	5.000	4.599	4.599	0.175	0.175	0.175	0.175	0.000	2.520	0.000	25.000
EW02	2.261	5.000	15.027	15.027	0.175	0.175	0.175	0.175	0.000	1.234	0.000	25.000
EW03	5.723	5.000	38.033	38.033	0.175	0.175	0.175	0.175	0.000	1.274	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.025	160.00	0.000
EE02	18	0.038	160.00	0.000
EE03	18	0.028	160.00	0.000
EE04	18	0.030	160.00	0.000
EE05	18	0.222	160.00	0.001
EE06	18	0.045	160.00	0.000
EE07	18	0.047	160.00	0.000
EE08	18	0.076	160.00	0.000
EE09	18	0.021	160.00	0.000
EE10	18	0.067	160.00	0.000
EW01	18	0.026	160.00	0.000
EW02	18	0.046	160.00	0.000
EW03	18	0.091	160.00	0.001
--	18	0.000	160.00	0.000
--	18	0.000	160.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-430
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to Benzidine**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	2.236	1.250	14.857	14.857	0.175	0.175	0.175	0.175	0.000	6.225	0.000	25.000
EE02	4.254	1.250	28.268	28.268	0.175	0.175	0.175	0.175	0.000	12.540	0.000	25.000
EE03	2.067	1.250	13.736	13.736	0.175	0.175	0.175	0.175	0.000	5.040	0.000	25.000
EE04	1.097	5.000	7.291	7.291	0.175	0.175	0.175	0.175	0.000	1.245	0.000	25.000
EE05	19.498	5.000	129.569	129.569	0.175	0.175	0.175	0.175	0.000	12.470	0.000	25.000
EE06	3.397	5.000	22.574	22.574	0.175	0.175	0.175	0.175	0.000	6.160	0.000	25.000
EE07	2.529	5.000	16.807	16.807	0.175	0.175	0.175	0.175	0.000	1.245	0.000	25.000
EE08	4.874	5.000	32.387	32.387	0.175	0.175	0.175	0.175	0.000	2.519	0.000	25.000
EE09	0.406	5.000	2.700	2.700	0.175	0.175	0.175	0.175	0.000	1.271	0.000	25.000
EE10	4.003	5.000	26.602	26.602	0.175	0.175	0.175	0.175	0.000	1.260	0.000	25.000
EW01	0.908	5.000	6.031	6.031	0.175	0.175	0.175	0.175	0.000	2.520	0.000	25.000
EW02	2.369	5.000	15.743	15.743	0.175	0.175	0.175	0.175	0.000	1.238	0.000	25.000
EW03	5.914	5.000	39.301	39.301	0.175	0.175	0.175	0.175	0.000	1.276	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	0.039	16.00	0.002
EE02	18	0.071	16.00	0.004
EE03	18	0.030	16.00	0.002
EE04	18	0.030	16.00	0.002
EE05	18	0.238	16.00	0.015
EE06	18	0.050	16.00	0.003
EE07	18	0.048	16.00	0.003
EE08	18	0.077	16.00	0.005
EE09	18	0.021	16.00	0.001
EE10	18	0.068	16.00	0.004
EW01	18	0.027	16.00	0.002
EW02	18	0.046	16.00	0.003
EW03	18	0.092	16.00	0.006
--	18	0.000	16.00	0.000
--	18	0.000	16.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.070
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

TABLE I-431
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to Benzidine

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ng/L)
EE01	2.236	1.250	14.857	14.857	0.175	0.175	0.175	0.175	0.000	6.225	0.000	25.000
EE02	4.254	1.250	28.268	28.268	0.175	0.175	0.175	0.175	0.000	12.340	0.000	25.000
EE03	2.067	1.250	13.736	13.736	0.175	0.175	0.175	0.175	0.000	5.040	0.000	25.000
EE04	1.097	5.000	7.291	7.291	0.175	0.175	0.175	0.175	0.000	1.245	0.000	25.000
EE05	19.498	5.000	129.569	129.569	0.175	0.175	0.175	0.175	0.000	12.470	0.000	25.000
EE06	3.397	5.000	22.574	22.574	0.175	0.175	0.175	0.175	0.000	6.160	0.000	25.000
EE07	2.529	5.000	16.807	16.807	0.175	0.175	0.175	0.175	0.000	1.245	0.000	25.000
EE08	4.874	5.000	32.387	32.387	0.175	0.175	0.175	0.175	0.000	2.519	0.000	25.000
EE09	0.406	5.000	2.700	2.700	0.175	0.175	0.175	0.175	0.000	1.271	0.000	25.000
EE10	4.003	5.000	26.602	26.602	0.175	0.175	0.175	0.175	0.000	1.260	0.000	25.000
EW01	0.908	5.000	6.031	6.031	0.175	0.175	0.175	0.175	0.000	2.520	0.000	25.000
EW02	2.369	5.000	15.743	15.743	0.175	0.175	0.175	0.175	0.000	1.238	0.000	25.000
EW03	5.914	5.000	39.301	39.301	0.175	0.175	0.175	0.175	0.000	1.276	0.000	25.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	0.039	160.00	0.000
EE02	18	0.071	160.00	0.000
EE03	18	0.030	160.00	0.000
EE04	18	0.030	160.00	0.000
EE05	18	0.238	160.00	0.001
EE06	18	0.050	160.00	0.000
EE07	18	0.048	160.00	0.000
EE08	18	0.077	160.00	0.000
EE09	18	0.021	160.00	0.000
EE10	18	0.068	160.00	0.000
EW01	18	0.027	160.00	0.000
EW02	18	0.046	160.00	0.000
EW03	18	0.092	160.00	0.001
--	18	0.000	160.00	0.000
--	18	0.000	160.00	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-432
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE

for Raccoon exposed to Benzidine

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	19.34	14.15	0.00	50.72	0.33	0.33	0.13	0.33	0.00	13.15	0.00	1.52
EE02	20.57	9.36	0.00	53.97	0.22	0.22	0.09	0.22	0.00	14.34	0.00	1.01
EE03	20.13	12.96	0.00	52.81	0.30	0.30	0.12	0.30	0.00	11.68	0.00	1.39
EE04	12.95	47.35	0.00	33.97	0.28	0.28	0.11	0.28	0.00	3.52	0.00	1.27
EE05	24.74	6.46	0.00	64.89	0.04	0.04	0.02	0.04	0.00	3.61	0.00	0.17
EE06	16.39	32.03	0.00	42.99	0.19	0.19	0.07	0.19	0.00	7.09	0.00	0.86
EE07	18.16	30.52	0.00	47.63	0.18	0.18	0.07	0.18	0.00	2.27	0.00	0.82
EE08	21.38	18.86	0.00	56.07	0.11	0.11	0.04	0.11	0.00	2.81	0.00	0.51
EE09	6.88	66.88	0.00	18.06	0.39	0.39	0.16	0.39	0.00	5.05	0.00	1.80
EE10	20.99	21.36	0.00	55.05	0.12	0.12	0.05	0.12	0.00	1.60	0.00	0.57
EW01	9.57	54.57	0.00	25.09	0.32	0.32	0.13	0.32	0.00	8.22	0.00	1.47
EW02	17.92	31.29	0.00	47.02	0.18	0.18	0.07	0.18	0.00	2.31	0.00	0.84
EW03	22.74	15.68	0.00	59.65	0.09	0.09	0.04	0.09	0.00	1.19	0.00	0.42
Average	17.83	27.81	0.00	46.76	0.21	0.21	0.08	0.21	0.00	5.91	0.00	0.97

**TABLE I-433
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to High MW PAHs**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.013	1.320	583.185	510.287	2873.077	1915.385	195.447	390.895	0.000	12.868	0.000	10.000
EE02	0.053	1.320	2423.548	2120.605	3591.347	2394.231	244.309	488.619	0.000	92.352	0.000	12.500
EE03	0.036	1.320	1637.862	1433.129	3591.347	2394.231	244.309	488.619	0.000	31.242	0.000	12.500
EE04	0.041	5.200	1867.674	1634.214	3591.347	2394.231	244.309	488.619	0.000	16.317	0.000	12.500
EE05	0.053	5.200	2423.548	2120.605	3979.212	2652.808	270.695	541.389	0.000	27.483	0.000	13.850
EE06	0.006	5.200	289.492	253.305	4309.616	2873.077	293.171	586.342	0.000	4.123	0.000	15.000
EE07	0.008	5.200	362.349	317.055	4309.616	2873.077	293.171	586.342	0.000	1.426	0.000	15.000
EE08	0.008	5.200	350.660	306.828	4309.616	2873.077	293.171	586.342	0.000	1.527	0.000	15.000
EE09	0.001	5.200	38.125	33.360	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EE10	0.007	5.200	324.826	284.223	4309.616	2873.077	293.171	586.342	0.000	0.812	0.000	15.000
EW01	0.003	5.200	158.006	138.256	4309.616	2873.077	293.171	586.342	0.000	4.291	0.000	15.000
EW02	0.007	5.200	328.280	287.245	4309.616	2873.077	293.171	586.342	0.000	1.395	0.000	15.000
EW03	0.014	5.200	634.788	555.439	4309.616	2873.077	293.171	586.342	0.000	1.132	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	3.259	0.24	13.579
EE02	18	6.264	0.24	26.099
EE03	18	5.226	0.24	21.774
EE04	18	5.513	0.24	22.969
EE05	18	6.559	0.24	27.327
EE06	18	4.150	0.24	17.293
EE07	18	4.239	0.24	17.664
EE08	18	4.225	0.24	17.604
EE09	18	3.832	0.24	15.968
EE10	18	4.192	0.24	17.466
EW01	18	3.986	0.24	16.606
EW02	18	4.197	0.24	17.486
EW03	18	4.581	0.24	19.087
--	18	0.000	0.24	0.000
--	18	0.000	0.24	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-434
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to High MW PAHs**

MEAN CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.013	1.320	583.185	510.287	2873.077	1915.385	195.447	390.895	0.000	12.868	0.000	10.000
EE02	0.053	1.320	2423.548	2120.605	3591.347	2394.231	244.309	488.619	0.000	92.352	0.000	12.500
EE03	0.036	1.320	1637.862	1433.129	3591.347	2394.231	244.309	488.619	0.000	31.242	0.000	12.500
EE04	0.041	5.200	1867.674	1634.214	3591.347	2394.231	244.309	488.619	0.000	16.317	0.000	12.500
EE05	0.053	5.200	2423.548	2120.605	3979.212	2652.808	270.695	541.389	0.000	27.483	0.000	13.850
EE06	0.006	5.200	289.492	253.305	4309.616	2873.077	293.171	586.342	0.000	4.123	0.000	15.000
EE07	0.008	5.200	362.349	317.055	4309.616	2873.077	293.171	586.342	0.000	1.426	0.000	15.000
EE08	0.008	5.200	350.660	306.828	4309.616	2873.077	293.171	586.342	0.000	1.527	0.000	15.000
EE09	0.001	5.200	38.125	33.360	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EE10	0.007	5.200	324.826	284.223	4309.616	2873.077	293.171	586.342	0.000	0.812	0.000	15.000
EW01	0.003	5.200	158.006	138.256	4309.616	2873.077	293.171	586.342	0.000	4.291	0.000	15.000
EW02	0.007	5.200	328.280	287.245	4309.616	2873.077	293.171	586.342	0.000	1.395	0.000	15.000
EW03	0.014	5.200	634.788	553.439	4309.616	2873.077	293.171	586.342	0.000	1.132	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON MEAN CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT
EE01	18	3.239	2.40	1.358
EE02	18	6.264	2.40	2.610
EE03	18	5.226	2.40	2.177
EE04	18	5.513	2.40	2.297
EE05	18	6.559	2.40	2.733
EE06	18	4.150	2.40	1.729
EE07	18	4.239	2.40	1.766
EE08	18	4.225	2.40	1.760
EE09	18	3.832	2.40	1.597
EE10	18	4.192	2.40	1.747
EW01	18	3.986	2.40	1.661
EW02	18	4.197	2.40	1.749
EW03	18	4.581	2.40	1.909
--	18	0.000	2.40	0.000
--	18	0.000	2.40	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-435
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/NOAEL SCENARIO
for Raccoon exposed to High MW PAHs

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (µg/L)
EE01	0.023	1.320	1054.374	922.377	4309.616	2873.077	293.171	586.342	0.000	22.817	0.000	15.000
EE02	0.053	1.320	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	163.704	0.000	15.000
EE03	0.052	1.320	2363.170	2067.774	4309.616	2873.077	293.171	586.342	0.000	44.780	0.000	15.000
EE04	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	26.792	0.000	15.000
EE05	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	36.051	0.000	15.000
EE06	0.011	5.200	489.225	428.072	4309.616	2873.077	293.171	586.342	0.000	6.895	0.000	15.000
EE07	0.013	5.200	593.593	519.394	4309.616	2873.077	293.171	586.342	0.000	2.266	0.000	15.000
EE08	0.008	5.200	362.515	317.201	4309.616	2873.077	293.171	586.342	0.000	1.597	0.000	15.000
EE09	0.001	5.200	44.010	38.509	4309.616	2873.077	293.171	586.342	0.000	1.057	0.000	15.000
EE10	0.008	5.200	379.876	332.392	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EW01	0.005	5.200	225.765	197.544	4309.616	2873.077	293.171	586.342	0.000	4.872	0.000	15.000
EW02	0.007	5.200	328.834	287.730	4309.616	2873.077	293.171	586.342	0.000	1.455	0.000	15.000
EW03	0.026	5.200	1171.387	1024.964	4309.616	2873.077	293.171	586.342	0.000	2.100	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS				
BASED ON UCL (or max) CONCENTRATIONS				
LOCATION	Area Use Factor	Applied Daily Dose	TRV (NOAEL)	HAZARD QUOTIENT
EE01	18	5.115	0.24	21.312
EE02	18	6.953	0.24	28.971
EE03	18	6.775	0.24	28.231
EE04	18	6.847	0.24	28.529
EE05	18	6.855	0.24	28.562
EE06	18	4.403	0.24	18.347
EE07	18	4.530	0.24	18.876
EE08	18	4.240	0.24	17.666
EE09	18	3.840	0.24	15.999
EE10	18	4.261	0.24	17.734
EW01	18	4.071	0.24	16.963
EW02	18	4.197	0.24	17.489
EW03	18	5.235	0.24	21.805
--	18	0.000	0.24	0.000
--	18	0.000	0.24	0.000

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect level
LOAEL	Lowest-Observed-Adverse-Effect level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

**TABLE I-436
HAZARD QUOTIENT CALCULATION - UCL (or max) CONCENTRATION/LOAEL SCENARIO
for Raccoon exposed to High MW PAHs**

UCL (or max) CONCENTRATION (mg/kg, Wet Weight Basis)												
LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.023	1.320	1054.374	922.577	4309.616	2873.077	293.171	586.342	0.000	22.817	0.000	15.000
EE02	0.053	1.320	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	163.704	0.000	15.000
EE03	0.052	1.320	2363.170	2067.774	4309.616	2873.077	293.171	586.342	0.000	44.780	0.000	15.000
EE04	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	26.792	0.000	15.000
EE05	0.053	5.200	2423.548	2120.605	4309.616	2873.077	293.171	586.342	0.000	36.051	0.000	15.000
EE06	0.011	5.200	489.225	428.072	4309.616	2873.077	293.171	586.342	0.000	6.895	0.000	15.000
EE07	0.013	5.200	593.593	519.394	4309.616	2873.077	293.171	586.342	0.000	2.266	0.000	15.000
EE08	0.008	5.200	362.515	317.201	4309.616	2873.077	293.171	586.342	0.000	1.597	0.000	15.000
EE09	0.001	5.200	44.010	38.509	4309.616	2873.077	293.171	586.342	0.000	1.057	0.000	15.000
EE10	0.008	5.200	379.876	332.392	4309.616	2873.077	293.171	586.342	0.000	0.920	0.000	15.000
EW01	0.005	5.200	225.765	197.544	4309.616	2873.077	293.171	586.342	0.000	4.872	0.000	15.000
EW02	0.007	5.200	328.834	287.730	4309.616	2873.077	293.171	586.342	0.000	1.455	0.000	15.000
EW03	0.026	5.200	1171.387	1024.964	4309.616	2873.077	293.171	586.342	0.000	2.100	0.000	15.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
--	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

HAZARD QUOTIENTS					
BASED ON UCL (or max) CONCENTRATIONS					
LOCATION	Area Use Factor	Applied Daily Dose	TRV (LOAEL)	HAZARD QUOTIENT	
EE01	18	5.115	2.40	2.131	
EE02	18	6.953	2.40	2.897	
EE03	18	6.775	2.40	2.873	
EE04	18	6.847	2.40	2.853	
EE05	18	6.855	2.40	2.856	
EE06	18	4.403	2.40	1.835	
EE07	18	4.530	2.40	1.868	
EE08	18	4.240	2.40	1.767	
EE09	18	3.840	2.40	1.600	
EE10	18	4.261	2.40	1.775	
EW01	18	4.071	2.40	1.696	
EW02	18	4.197	2.40	1.749	
EW03	18	5.255	2.40	2.190	
--	18	0.000	2.40	0.000	
--	18	0.000	2.40	0.000	

EXPOSURE FACTORS	
Body Weight (kg)	4.2
Food Ingestion Rate (kg/day)	0.223
Sediment Ingestion Rate (kg/day)	0.020
Soil Ingestion Rate (kg/day)	0.000
Water Ingestion Rate (L/day)	0.360

LEGEND	
ADD	Applied Dietary Dose
TRV	Toxicity Reference Value
NOAEL	No-Observed-Adverse-Effect Level
LOAEL	Lowest-Observed-Adverse-Effect Level
HQ	Hazard Quotient

DIET COMPOSITION (%)	
Plants	38
Crayfish	30
Other Aquatic Invertebrates	0
Terrestrial Invertebrates	15
Reptiles/ Amphibians	5
Birds	5
Mammals	2
Fish	5
Other Items	0

TABLE I-437
HAZARD QUOTIENT CALCULATION - MEAN CONCENTRATION/NOAEL SCENARIO
PERCENT CONTRIBUTION TO APPLIED DIETARY DOSE
 for Raccoon exposed to High MW PAHs

LOCATION	Plants	Crayfish	Other Aquatic Invertebrates	Terrestrial Invertebrates	Reptiles/Amphibians	Birds	Mammals	Fish	Other Items	Sediment	Soil	Water (ug/L)
EE01	0.00	0.12	0.00	22.45	42.13	28.09	1.15	5.73	0.00	0.34	0.00	0.00
EE02	0.00	0.06	0.00	48.53	27.40	18.27	0.75	3.73	0.00	1.26	0.00	0.00
EE03	0.00	0.07	0.00	39.31	32.84	21.89	0.89	4.47	0.00	0.51	0.00	0.00
EE04	0.00	0.27	0.00	42.50	31.13	20.75	0.85	4.24	0.00	0.26	0.00	0.00
EE05	0.00	0.23	0.00	46.35	28.99	19.33	0.79	3.94	0.00	0.36	0.00	0.00
EE06	0.00	0.36	0.00	8.75	49.62	33.08	1.35	6.75	0.00	0.09	0.00	0.01
EE07	0.00	0.35	0.00	10.72	48.58	32.38	1.32	6.61	0.00	0.03	0.00	0.01
EE08	0.00	0.35	0.00	10.41	48.74	32.50	1.33	6.63	0.00	0.03	0.00	0.01
EE09	0.00	0.39	0.00	1.25	53.74	35.83	1.46	7.31	0.00	0.02	0.00	0.01
EE10	0.00	0.36	0.00	9.72	49.13	32.75	1.34	6.68	0.00	0.02	0.00	0.01
EW01	0.00	0.37	0.00	4.97	51.67	34.45	1.41	7.03	0.00	0.09	0.00	0.01
EW02	0.00	0.36	0.00	9.81	49.07	32.71	1.34	6.68	0.00	0.03	0.00	0.01
EW03	0.00	0.33	0.00	17.38	44.96	29.97	1.22	6.12	0.00	0.02	0.00	0.01
Average	0.00	0.28	0.00	20.94	42.92	28.62	1.17	5.84	0.00	0.23	0.00	0.00